

FILE NO.

## SERVICE MANUAL

## Remote Control Digital Color Television

**DP19657** (U.S.A.)  
(CANADA)

ORIGINAL VERSION



**Chassis No. P19657-00**

**NOTE:** Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

**If the Original Version Service Manual Chassis No. does not match the unit's,** additional Service Literature is required. You **must** refer to "Notices" to the Original Service Manual prior to servicing the unit.

**Servicing should be performed by only trained and qualified service personnel.**

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### Specifications

|                               |                                                                                  |
|-------------------------------|----------------------------------------------------------------------------------|
| Power Rating .....            | 120VAC<br>50W (Avg), 1.0A (Max)                                                  |
| Antenna Input Impedance ..... | 75Ω<br>UHF/VHF/CATV                                                              |
| Receiving Channel .....       | 2 - 13 (VHF),<br>14 - 69 (UHF),<br>01, 14-94, 95-125 (CATV)<br>1 - 135 (Digital) |
| Remote Ready .....            | 32 Key Remote Control                                                            |
| Sound Output .....            | 2.0 W/CH                                                                         |
| Intermediate Frequency        |                                                                                  |
| Picture IF Carrier .....      | 45.75MHz                                                                         |
| Sound IF Carrier .....        | 41.25MHz                                                                         |
| Color Sub Carrier .....       | 42.17MHz                                                                         |
| LCD .....                     | M190A01-L02                                                                      |
| Cabinet Dimensions            |                                                                                  |
| Width .....                   | 480mm                                                                            |
| Height .....                  | 383mm                                                                            |
| Depth including base .....    | 184mm                                                                            |

# SAFETY INSTRUCTIONS

## SAFETY PRECAUTIONS

**WARNING:** The chassis of this receiver has a floating ground with the potential of one half the AC line voltage in respect to earth ground. Service should not be attempted by anyone not familiar with the precautions necessary when working on this type of equipment.

*The following precautions must be observed:*

1. An isolation transformer must be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Comply with all caution and safety-related notes provided on the side of the cabinet, inside the cabinet, and on the chassis.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as control knobs, adjustment covers, shields and barriers.
4. Before replacing the back cover of the set, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any television to the customer, the service technician must perform the following safety checks to be sure that the unit is completely safe to operate without danger of electrical shock.

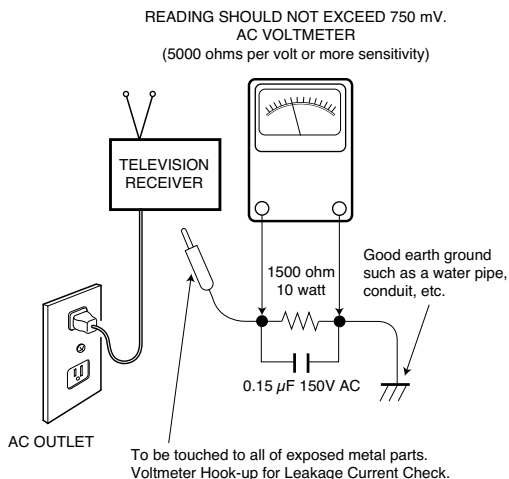
## ANTENNA COLD CHECK

Remove AC plug from the 120 VAC outlet and place a jumper across the two blades. Connect one lead of an ohmmeter to the jumpered AC plug, and touch the other lead to the exposed antenna terminal. The resistance must measure between 1M ohm and 5.2M ohm. Any resistance value below or above this range indicates an abnormality which requires corrective action.

## LEAKAGE CURRENT CHECK

Plug the AC line cord directly into a 120 VAC outlet. (Do not use an isolation transformer for this check.) Use an AC voltmeter, that has 5000 ohms per volt or more sensitivity. Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15  $\mu$ F 150 VAC capacitor, between a known good earth ground (water pipe, conduit, etc.) and all exposed metal parts of the cabinet (antennas, handle bracket, metal cabinet, screw heads, metal overlays, control shafts, etc.). Measure the AC voltage across the 1500 ohm resistor. The AC voltage should not exceed 750 mV. A reading exceeding 750 mV indicates that a dangerous potential exists. The fault must be located and corrected. Repeat the above test with the receiver power plug reversed.

**NEVER RETURN A RECEIVER TO THE CUSTOMER WITHOUT TAKING THE NECESSARY CORRECTIVE ACTION.**



## PRODUCT SAFETY NOTICE

When replacing components in a receiver, always keep in mind the necessary product safety precautions. Pay special attention to the replacement of components marked with a  $\triangle$  in the parts list and in the schematic diagrams. To ensure safe product operation, it is necessary to replace those components with the exact same PARTS.

## SERVICING ELECTROSTATICALLY SENSITIVE DEVICES

Semiconductors (solid-state devices) that can be damaged by static electricity are referred to as Electrostatically Sensitive (ES) devices. Examples of typical ES devices are: Integrated Circuits (IC), Field-Effect Transistors (FET), and "chip" components. The following techniques should be observed strictly, to reduce the occurrence of semiconductor damage due to electrostatic discharge.

1. Immediately prior to handling any semiconductor component or an assembly containing a semiconductor device or devices, discharge the electrostatic buildup on your body by touching a known earth ground. You may also obtain and wear a commercially available discharging wrist strap device.

**CAUTION:** Be sure to remove the wrist strap before applying power to any unit being serviced.

2. After removing an ES equipped assembly, place it on a conductive surface, such as, aluminum foil, to prevent buildup or exposure to static electricity.
3. Use only grounded-tip soldering irons to solder or unsolder ES devices.
4. Use only anti-static solder removal devices. Some suction-type devices can generate static electricity adequate to damage ES devices.
5. A replacement ES device will come packaged in protective material (conductive foam, aluminum foil, or some comparable conductive material). Do Not remove an ES device from its protective packaging unless you are prepared to install it immediately.
6. Precisely prior to removing an ES device from its protective packaging, touch the protective packaging to the chassis or assembly in which the device will be installed.  
**CAUTION:** Be sure that no power is applied to the chassis or circuit assembly.
7. Incidental body movements, such as, lifting a foot from a carpeted floor or the rubbing of fabric together can generate static electricity sufficient to damage ES devices. Therefore, minimize all body movements while handling exposed (unpacked) ES devices.

# SERVICE ADJUSTMENTS

## GENERAL

This set has an On-screen Service Menu system included in the CPU that allows remote operation for most of the service adjustments.

## ON-SCREEN SERVICE MENU SYSTEM

### 1. Enter the Service Menu:

- Turn off the receiver and disconnect the AC power supply.
- While pressing the Volume (–) button on the television, reconnect the AC power supply. The Service Menu will now appear. The remote can now be used to make adjustments. See Figure 1 below.



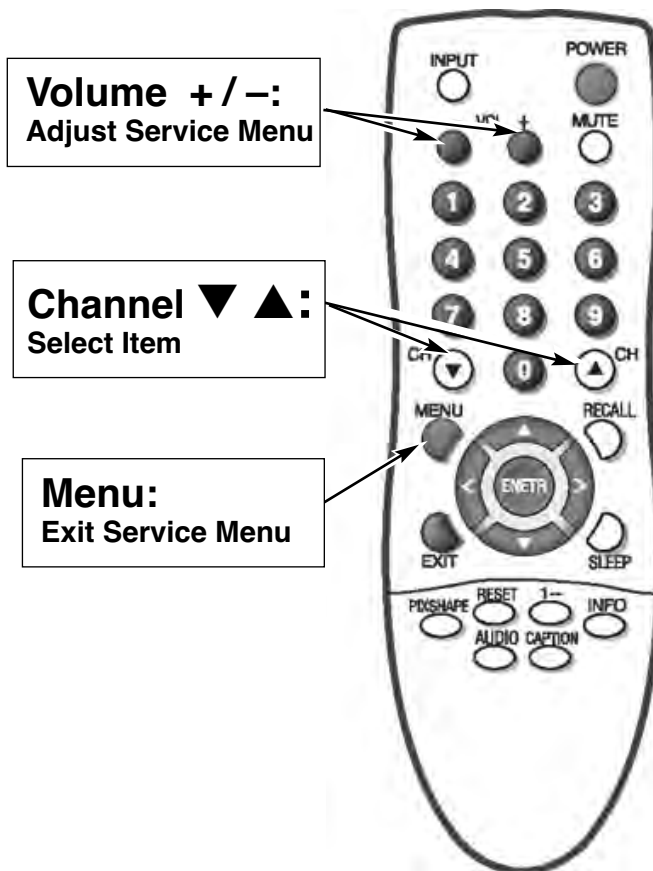
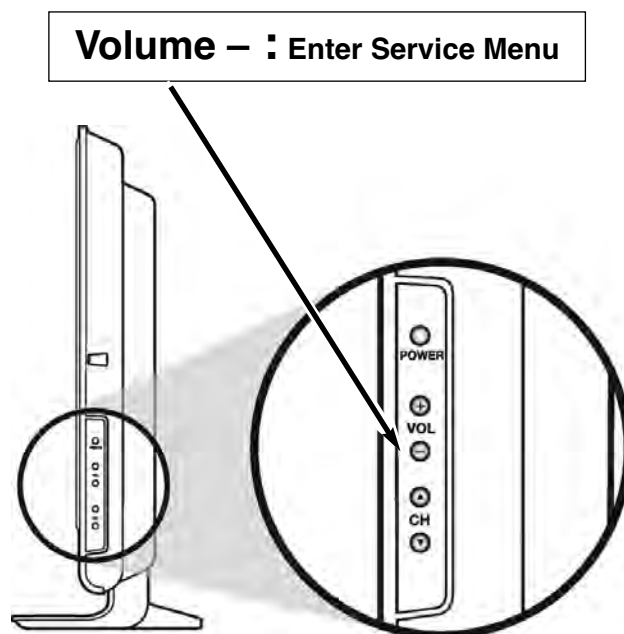
Figure 1. Service Menu Display

### 2. Service Adjustments:

- Press the **Channel ▲** or **▼** key to select the desired service menu item you want to adjust. See page 4 for the On-screen Service Menu.
- Use the **Volume +** or **–** key to adjust the data. The + or – keys will increase or decrease the data sequentially.

### 3. Exit from the Service Menu:

- Press the **MENU** key to turn off the Service Menu display.



# ON-SCREEN SERVICE MENU

**Table 1. ON-SCREEN SERVICE MENU**

When IC802 (EEPROM) is replaced, check the bus data to confirm they are the same as below. See page 3 for On-Screen Service Menu access and adjustments.

| No. | Title | Initial Data | Note                    |
|-----|-------|--------------|-------------------------|
| 086 | VOL   | 30h          | Volume setup inspection |
| 087 | OP1   | 00h          | Option 1 Data           |
| 088 | OP2   | 02h          | Option 2 Data           |
|     |       |              |                         |
| 101 | 1R00  | 00h          | ROM Correction Data     |
| 102 | 1R02  | 00h          | ROM Correction Data     |
| ↓   | ↓     | ↓            | ↓                       |
| 197 | 2R47  | 00h          | ROM Correction Data     |
| 198 | 2R48  | 00h          | ROM Correction Data     |

## PROGRAM CODES

The microprocessor used in this model is a multi-purpose type and is used in several different models. To ensure proper operation and the correct features for your particular model, the program codes must be correct.

**Note 1. Option Data 1 (NO. 087 OPT) should be hexadecimal 00.** See 087 above. If this program code is wrong the TV will not operate properly.

**Note 2. Option Data 2 (NO. 088 OP2) should be hexadecimal 02.** See 088 above. If this program code is wrong the TV will not operate properly.

# POWER FAILURE CIRCUIT

This unit is equipped with a Power Failure Detector function included in the CPU which checks for an abnormal condition in the chassis power supplies, including the power supply for the LVDS (LCD Panel).

If, while the power is on, a failure is caused by any of the following that results in a low voltage supply, the CPU will turn the unit off in 1.5 seconds to prevent further damage:

- Failure within the power supply circuits.
- A short circuit in the load side from the supply.

1. **Power Failure 1:** Detected voltage failure for digital circuits. (Connected to IC801 pin 36.)
2. **Power Failure 2:** Detected voltage failure for analog circuits. (Connected to IC801 pin 32.)

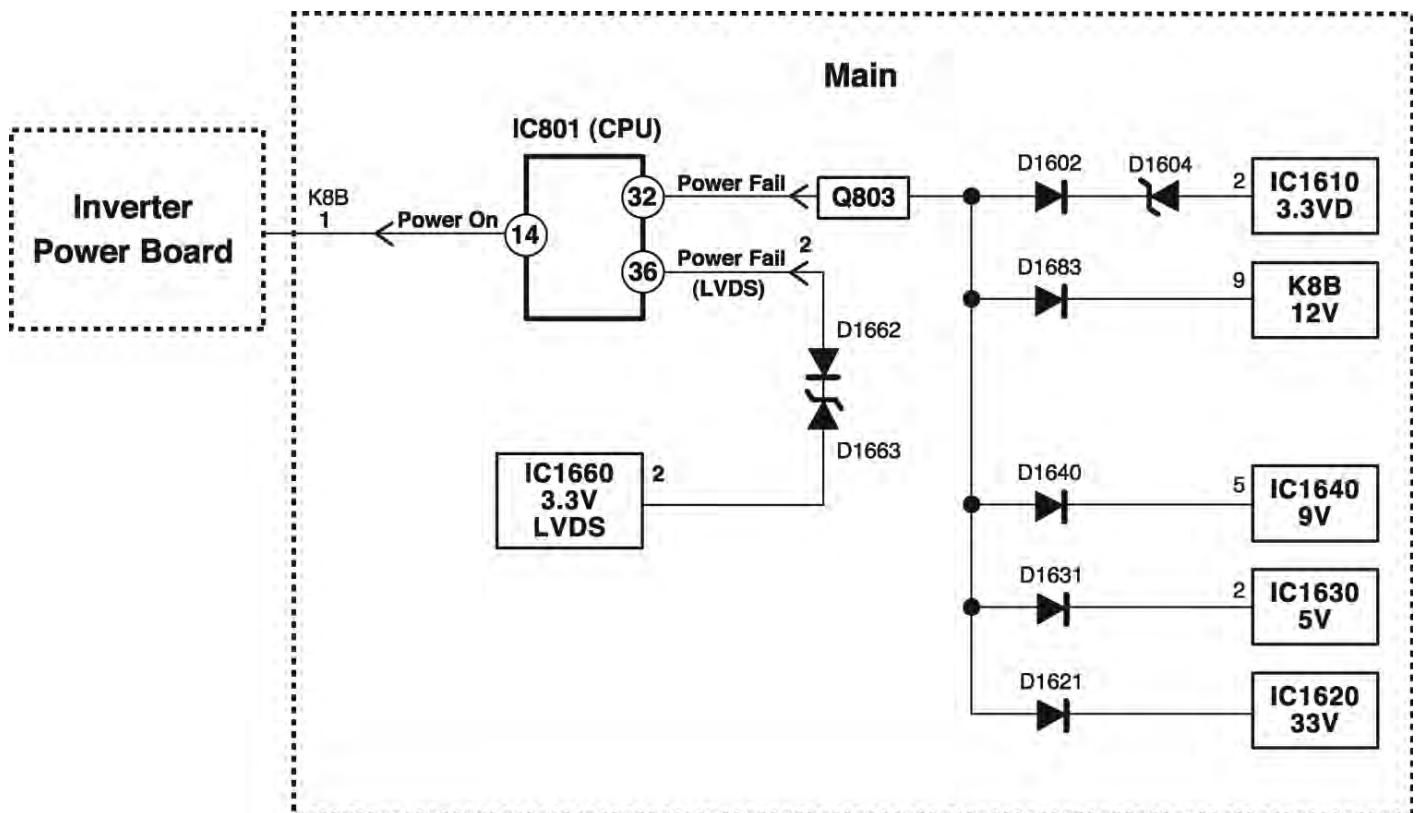
(Normal: High; Failure: Low)

If, while the power is off, the power is switched on and any of these failures remains uncorrected, the CPU will shut off the power within three seconds.

*Check the following if the unit is turned off by the power failure detector.*

1. Disconnect the AC power cord (120V AC line) for at least 10 seconds.
2. Connect a DC Voltmeter to the circuits shown below.
3. Press the Power key and check for the proper voltage supplies.
4. If any of these voltages is low, the power failure detector should turn the unit off within three seconds.
5. Check all circuits shown below.

**Note:** This unit is equipped with a Power Surge Protection feature included in the CPU. If power failure occurs three times within 15 minutes, the CPU will stop functioning automatically to help prevent secondary damage. (TV will not turn on by pressing the power key.) To reset the operating programs within the CPU, disconnect the AC power cord for at least 10 seconds.



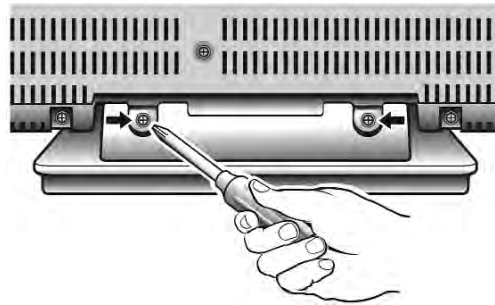
# MECHANICAL DISASSEMBLY

**CAUTION:** This LCD TV uses several different kinds of screws. Using the correct screw is necessary to prevent damage. Lead wires must be redressed to their previous locations after servicing.

## STAND REMOVAL

**Note:** Position TV face down on a padded or cushioned surface to protect the screen and finish.

Remove 2 screws to take the stand off.

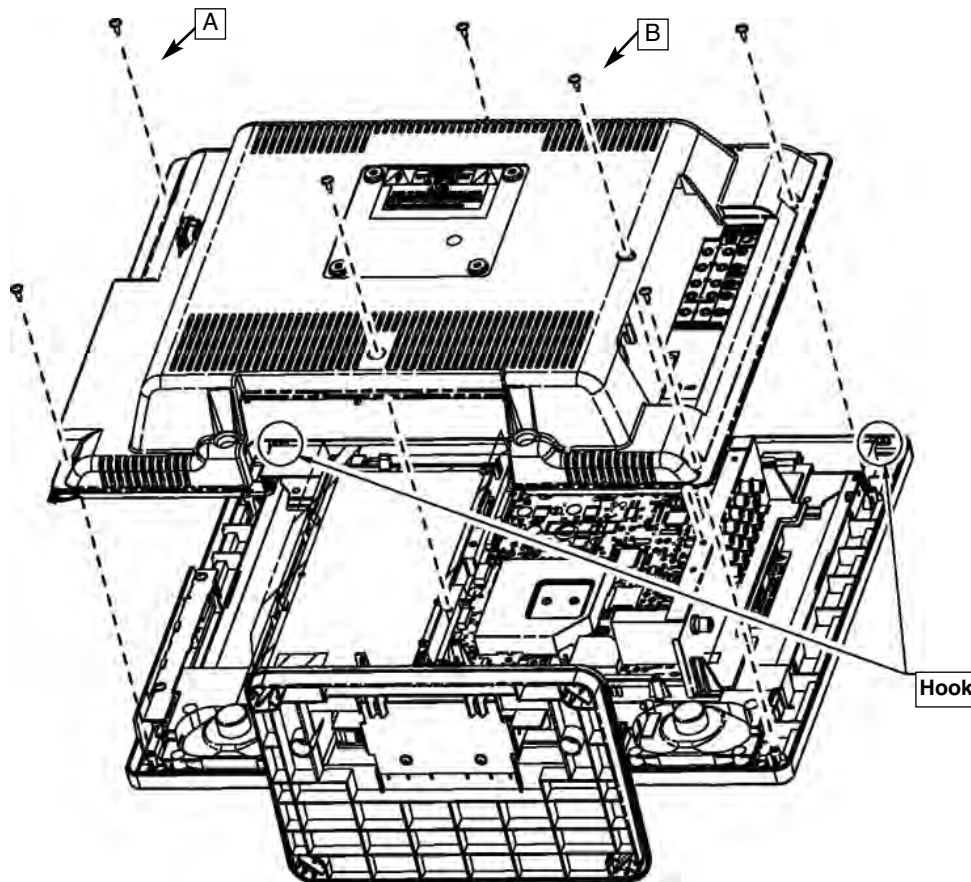


## CABINET BACK REMOVAL

Remove 6 screws (A 3X10) and 1 screw (B 3X6).

Release the hooks in 2 places at the top by grasping the bottom of the back and lifting. Take the cabinet back off.

**Note:** The cabinet back can be removed without removing the stand.



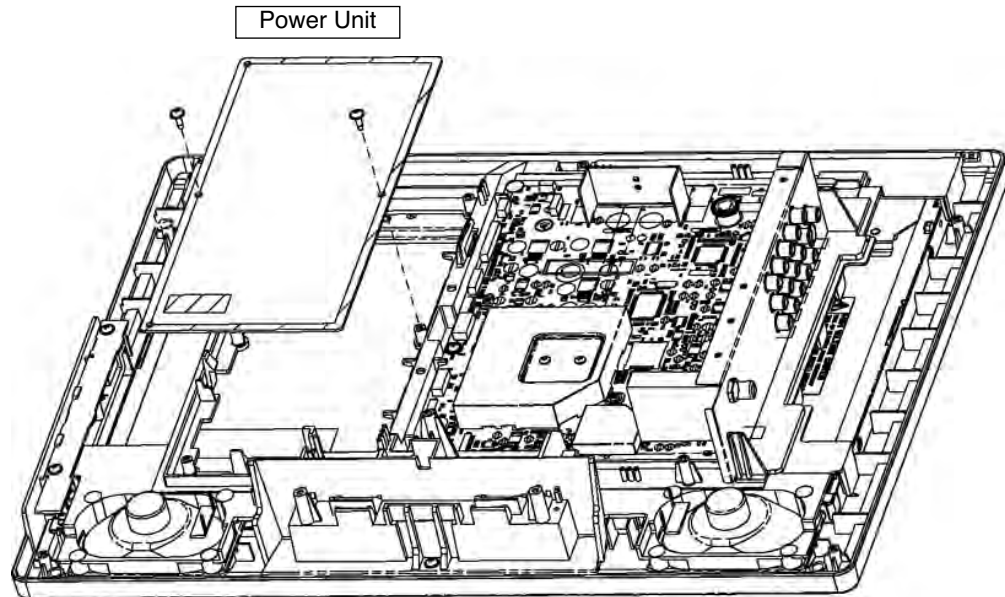


### **ELECTROSTATICALLY SENSITIVE DEVICES**

Many solid-state devices (especially Integrated Circuits) are Electrostatically Sensitive, and, therefore, require special handling techniques as described under "Servicing Electrostatically Sensitive Devices," on page two in this service literature.

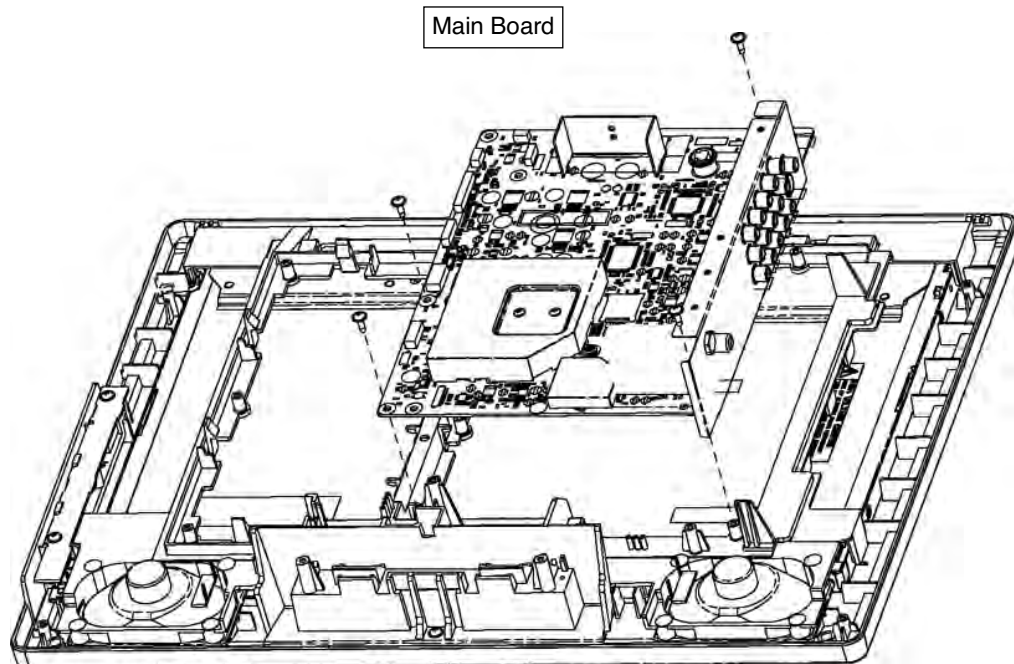
## **POWER BOARD REMOVAL**

Remove 2 screws to take off the power unit.



## **MAIN BOARD REMOVAL**

Remove 4 screws to take off the main board.

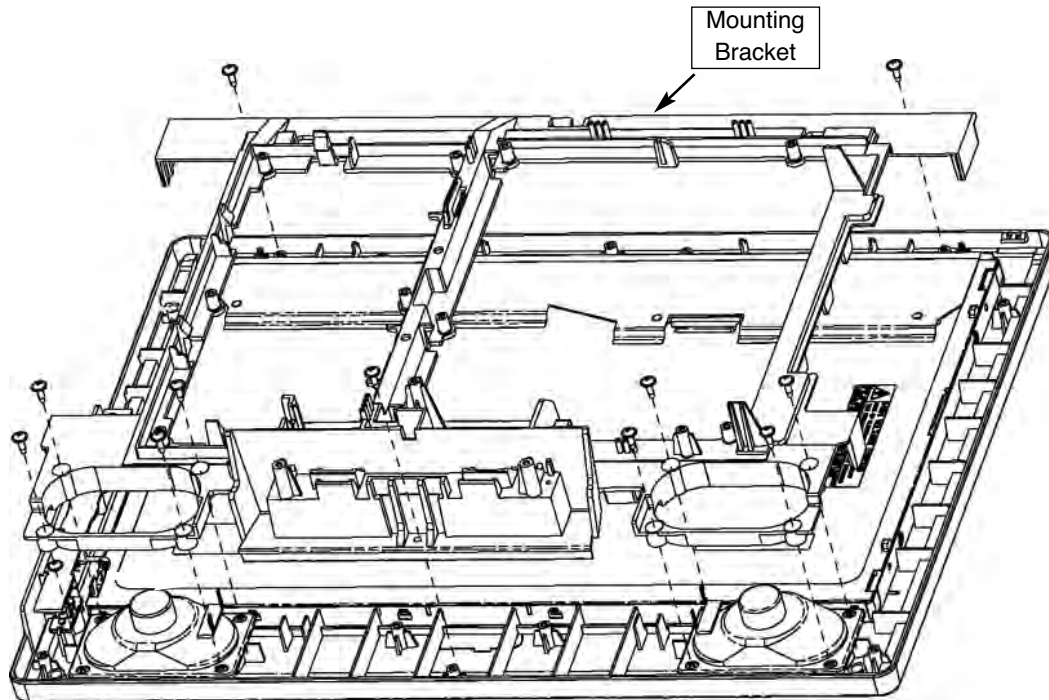




## MECHANICAL DISASSEMBLY (CONT.)

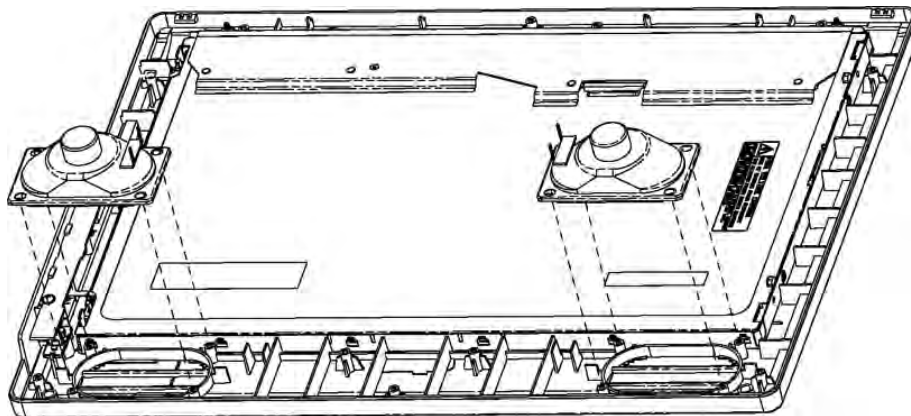
### MOUNTING BRACKET AND SPEAKER REMOVAL

Remove 11 screws to take off the mounting bracket and the left and right speakers.



### SPEAKER REMOVAL

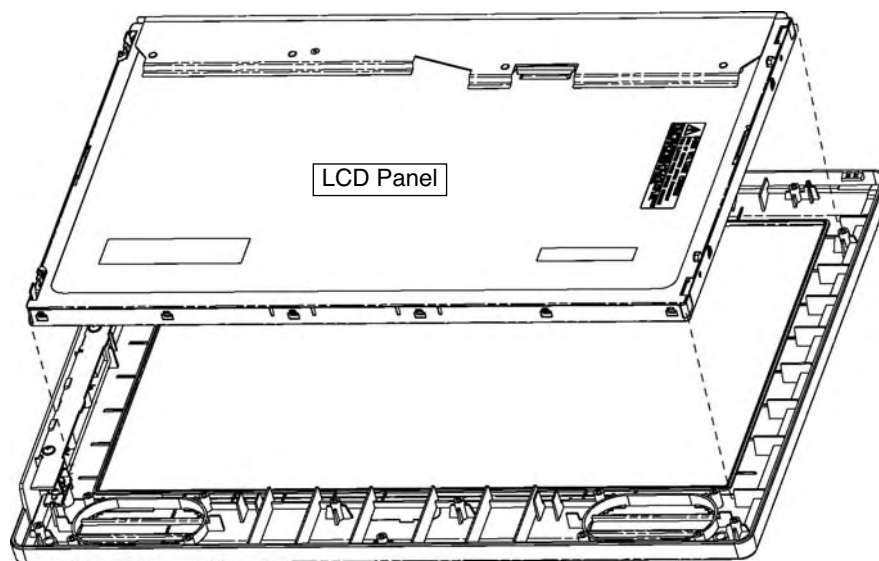
Lift both speakers from cabinet.





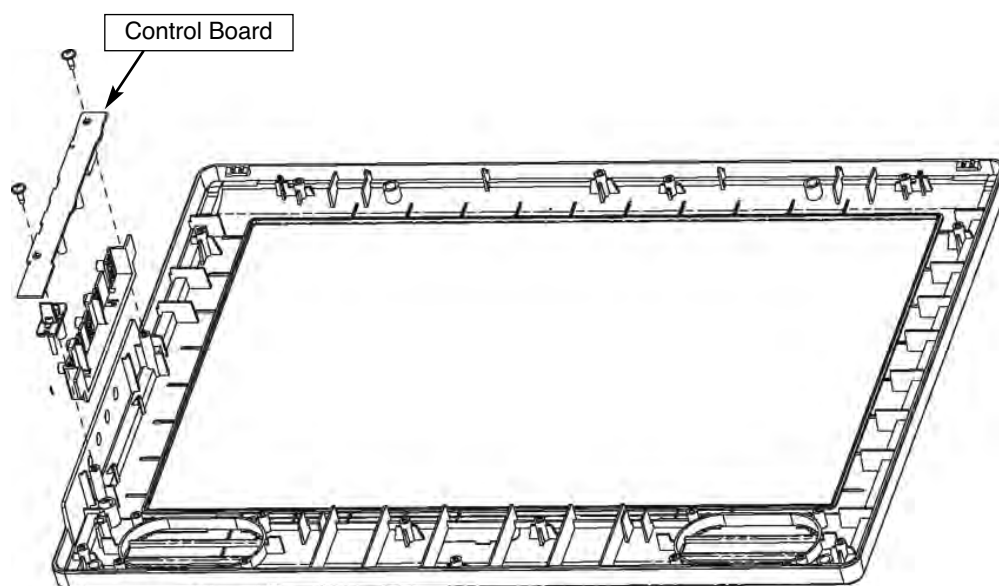
## LCD PANEL REMOVAL

Lift panel from cabinet.



## CONTROL BOARD REMOVAL

Remove 2 screws to take off the control board with the button assembly parts.



# CHASSIS ELECTRICAL PARTS LIST

**CAUTION: To Protect against electrical shock and for continued product safety, refer to SAFETY PRECAUTIONS and PRODUCT SAFETY NOTICE on Page 2.**

## PRODUCT SAFETY NOTICE

**PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. COMPONENTS INDICATED BY A  $\Delta$  IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATE COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS DESIGNATED ON THE FOLLOWING PARTS LIST BE USED FOR COMPONENT REPLACEMENT DESIGNATED BY A  $\Delta$ . NO DEVIATIONS FROM RESISTANCE, WATTAGE, AND VOLTAGE RATINGS MAY BE MADE FOR REPLACEMENT ITEMS DESIGNATED BY A  $\Delta$ .**

Note: Schematic part location numbers may not always match with the part descriptions.  
The part descriptions are correct and should be used.

| Schematic Location | Part No. | Description |
|--------------------|----------|-------------|
|--------------------|----------|-------------|

## CAPACITORS

### NOTES:

Read description of the Capacitor as follows:

(Example)

|         |      |   |                                                                    |
|---------|------|---|--------------------------------------------------------------------|
| CERAMIC | 100P | K | 50V                                                                |
|         |      |   | Rated Voltage                                                      |
|         |      |   | Tolerance Symbols:<br>Less than 10pF                               |
|         |      |   | A : Not specified B : $\pm 0.1\text{pF}$ C : $\pm 0.25\text{pF}$   |
|         |      |   | D : $\pm 0.5\text{pF}$ E : $+0 -1\text{pF}$ F : $\pm 1\text{PF}$   |
|         |      |   | G : $\pm 2\text{pF}$ H : $+0.1 -0\text{pF}$ L : $+0 -0.1\text{pF}$ |
|         |      |   | R : $\pm 0.25 -0\text{pF}$ S : $+0 -0.25\text{pF}$                 |
|         |      |   | More than 10pF                                                     |
|         |      |   | A : Not specified B : $\pm 0.1\%$ C : $\pm 0.25\%$                 |
|         |      |   | D : $\pm 0.5\%$ F : $\pm 1\%$ G : $\pm 2\%$                        |
|         |      |   | H : $\pm 3\%$ J : $\pm 5\%$ K : $\pm 10\%$                         |
|         |      |   | L : $\pm 15\%$ M : $\pm 20\%$ N : $\pm 30\%$                       |
|         |      |   | P : $+100 -0\%$ Q : $+30 -10\%$ T : $+50 -10\%$                    |
|         |      |   | U : $+75 -10\%$ V : $+20 -10\%$ W : $+100 -10\%$                   |
|         |      |   | X : $+40 -20\%$ Y : $+150 -10\%$ Z : $+80 -20\%$                   |
|         |      |   | Rated value: P=pico farad, U=micro farad                           |

### Material:

CERAMIC..... Ceramic  
MT-PAPER..... Metallized Paper  
POLYESTER..... Polyester  
MT-POLYEST.....Metallized Polyester  
POLYPRO..... Polypropylene  
MT-POLYPRO..... Metallized Polypropylene  
COMPO FILM..... Composite Film  
MT-COMPO..... Metallized Composite  
STYRENE..... Styrene  
TA-SOLID..... Tantalum Solid  
AL-SOLID..... Aluminium Solid  
ELECT..... Electrolytic  
NP-ELECT..... Non-polarised Electrolytic  
OS-SOLID..... Aluminium Solid with Organic  
Semiconductive Electrolytic

| Schematic Location | Part No. | Description |
|--------------------|----------|-------------|
|--------------------|----------|-------------|

## RESISTORS

### NOTES:

Read description of the Resistor as follows:

(Example)

|        |      |   |   |                                                                                                            |
|--------|------|---|---|------------------------------------------------------------------------------------------------------------|
| CARBON | 4.7K | J | A | 1/4W                                                                                                       |
|        |      |   |   | Rated Wattage                                                                                              |
|        |      |   |   | Performance Symbols:<br>A...General B...Non-flammable<br>Z...Low noise<br>Other... Temperature coefficient |
|        |      |   |   | Tolerance Symbols:<br>A...0.05% B...0.1% C...25%                                                           |
|        |      |   |   | D...0.5% F...1% G...2%                                                                                     |
|        |      |   |   | J...5% K...10% M...20%                                                                                     |
|        |      |   |   | P...+5 -15%                                                                                                |
|        |      |   |   | Rated Value, ohms:<br>K...1,000 M...1,000,000                                                              |

### Material:

CARBON ..... Carbon  
MT-FILM .....Metal Film  
OXIDE-MT .....Oxide Metal Film  
SOLID .....Composition  
MT-GLAZE .....Metal Glaze  
WIRE WOUND .....Wire Wound  
CERAMIC RES .... Ceramic  
FUSIBLE RES ..... Fusible

| Schematic Location | Part No. | Description |
|--------------------|----------|-------------|
|--------------------|----------|-------------|

### CAPACITORS

|      |               |                         |
|------|---------------|-------------------------|
| C001 | CPXLB1C100YAN | NP-ELECT 10U M 16V      |
| C001 | CPXLB1C100ZAN | NP-ELECT 10U M 16V      |
| C002 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C006 | CEXLB1H4R7VDN | ELECT 4.7U M 50V        |
| C006 | CEXLB1H4R7WAN | ELECT 4.7U M 50V        |
| C007 | CEXLB1V470VDN | ELECT 47U M 35V         |
| C007 | CEXLB1V470WAN | ELECT 47U M 35V         |
| C008 | CK1H102KLZBNG | CERAMIC 1000P K 50V     |
| C009 | CK1H102KLZBNG | CERAMIC 1000P K 50V     |
| C010 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C011 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C013 | CPXLB1C100YAN | NP-ELECT 10U M 16V      |
| C013 | CPXLB1C100ZAN | NP-ELECT 10U M 16V      |
| C015 | CEXLB1C222VDN | ELECT 2200U M 16V       |
| C016 | CEXLB1H100VDN | ELECT 10U M 50V         |
| C016 | CEXLB1H100WAN | ELECT 10U M 50V         |
| C017 | CEXLB1H100VDN | ELECT 10U M 50V         |
| C017 | CEXLB1H100WAN | ELECT 10U M 50V         |
| C018 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C019 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C681 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C684 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C687 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C697 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C703 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C704 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C705 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C706 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C708 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C710 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C721 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C723 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C800 | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| C804 | RGF1003JTCANL | MT-GLAZE 100K JA 1/10W  |
| C805 | CC1H220JLZCNG | CERAMIC 22P J 50V       |
| C806 | CC1H220JLZCNG | CERAMIC 22P J 50V       |
| C807 | CK1H103ZLZFNG | CERAMIC 0.01U Z 50V     |
| C811 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C813 | CEXLB1V470VDN | ELECT 47U M 35V         |
| C813 | CEXLB1V470WAN | ELECT 47U M 35V         |
| C814 | CK1H222KLZBNG | CERAMIC 2200P K 50V     |
| C815 | CC1H220JLZCNG | CERAMIC 22P J 50V       |
| C816 | CC1H220JLZCNG | CERAMIC 22P J 50V       |
| C820 | CK1H103ZLZFNG | CERAMIC 0.01U Z 50V     |
| C825 | CC1H470JLZCNG | CERAMIC 47P J 50V       |
| C826 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C827 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C829 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C834 | CEXLB0J221VDN | ELECT 220U M 6.3V       |
| C834 | CEXLB0J221WAN | ELECT 220U M 6.3V       |
| C835 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C836 | CC1H120JLZCNG | CERAMIC 12P J 50V       |
| C837 | CC1H120JLZCNG | CERAMIC 12P J 50V       |

| Schematic Location | Part No. | Description |
|--------------------|----------|-------------|
|--------------------|----------|-------------|

|       |               |                      |
|-------|---------------|----------------------|
| C839  | CK1H103ZLZFNG | CERAMIC 0.01U Z 50V  |
| C840  | CK1H333KLZBNG | CERAMIC 0.033U K 50V |
| C841  | CEXLB1H2R2VDN | ELECT 2.2 U M 50V    |
| C841  | CEXLB1H2R2WAN | ELECT 2.2U M 50V     |
| C842  | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C1000 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C1001 | CEXLB1H100VDN | ELECT 10U M 50V      |
| C1001 | CEXLB1H100WAN | ELECT 10U M 50V      |
| C1002 | CEXLB1H100VDN | ELECT 10U M 50V      |
| C1002 | CEXLB1H100WAN | ELECT 10U M 50V      |
| C1003 | CEXLB1H4R7VDN | ELECT 4.7U M 50V     |
| C1003 | CEXLB1H4R7WAN | ELECT 4.7U M 50V     |
| C1004 | CEXLB1H4R7VDN | ELECT 4.7U M 50V     |
| C1004 | CEXLB1H4R7WAN | ELECT 4.7U M 50V     |
| C1011 | CEXLB1H4R7VDN | ELECT 4.7U M 50V     |
| C1011 | CEXLB1H4R7WAN | ELECT 4.7U M 50V     |
| C1012 | CEXLB1H4R7VDN | ELECT 4.7U M 50V     |
| C1012 | CEXLB1H4R7WAN | ELECT 4.7U M 50V     |
| C1013 | CEXLB1H4R7VDN | ELECT 4.7U M 50V     |
| C1013 | CEXLB1H4R7WAN | ELECT 4.7U M 50V     |
| C1014 | CEXLB1H4R7VDN | ELECT 4.7U M 50V     |
| C1014 | CEXLB1H4R7WAN | ELECT 4.7U M 50V     |
| C1015 | CEXLB1H4R7VDN | ELECT 4.7U M 50V     |
| C1015 | CEXLB1H4R7WAN | ELECT 4.7U M 50V     |
| C1016 | CEXLB1H4R7VDN | ELECT 4.7U M 50V     |
| C1016 | CEXLB1H4R7WAN | ELECT 4.7U M 50V     |
| C1017 | CEXLB1H4R7VDN | ELECT 4.7U M 50V     |
| C1017 | CEXLB1H4R7WAN | ELECT 4.7U M 50V     |
| C1201 | CEXLB1V470VDN | ELECT 47U M 35V      |
| C1201 | CEXLB1V470WAN | ELECT 47U M 35V      |
| C1202 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C1205 | CEXLB1V470VDN | ELECT 47U M 35V      |
| C1205 | CEXLB1V470WAN | ELECT 47U M 35V      |
| C1251 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C1600 | CEXLB1E102VDN | ELECT 1K U M 25V     |
| C1601 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C1602 | CE0J102MZVANN | ELECT 1000U M 6.3V   |
| C1603 | CK1A105ZLZFNG | CERAMIC 1U Z 10V     |
| C1604 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C1610 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C1611 | CK1A105ZLZFNG | CERAMIC 1U Z 10V     |
| C1613 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C1614 | CEXLB0J221VDN | ELECT 220U M 6.3V    |
| C1614 | CEXLB0J221WAN | ELECT 220U M 6.3V    |
| C1615 | CEXLB0J221VDN | ELECT 220U M 6.3V    |
| C1615 | CEXLB0J221WAN | ELECT 220U M 6.3V    |
| C1618 | CK1A105ZLZFNG | CERAMIC 1U Z 10V     |
| C1619 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C1620 | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C1621 | CK1A105ZLZFNG | CERAMIC 1U Z 10V     |
| C1622 | CK1A105ZLZFNG | CERAMIC 1U Z 10V     |
| C1623 | CEXLB1H100VDN | ELECT 10U M 50V      |
| C1623 | CEXLB1H100WAN | ELECT 10U M 50V      |
| C1630 | CEXLB1C101VDN | ELECT 100U M 16V     |

| Schematic Location | Part No.      | Description          |
|--------------------|---------------|----------------------|
| C1630              | CEXLB1C101WAN | ELECT 100U M 16V     |
| C1631              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C1632              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C1633              | CEXLB0J102VDN | ELECT 1000U M 6.3V   |
| C1633              | CEXLB0J102WAN | ELECT 1000U M 6.3V   |
| C1634              | CK1A105ZLZFNG | CERAMIC 1U Z 10V     |
| C1640              | CEXLB1C101VDN | ELECT 100U M 16V     |
| C1640              | CEXLB1C101WAN | ELECT 100U M 16V     |
| C1641              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C1642              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C1643              | CEXLB1C101VDN | ELECT 100U M 16V     |
| C1643              | CEXLB1C101WAN | ELECT 100U M 16V     |
| C1660              | CEXLB1V471WAN | ELECT 470U M 35V     |
| C1661              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C1662              | CK1H103ZLZFNG | CERAMIC 0.01U Z 50V  |
| C1663              | CC1H470JLZCNG | CERAMIC 47P J 50V    |
| C1664              | CK1H103ZLZFNG | CERAMIC 0.01U Z 50V  |
| C1665              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C1666              | CEXLB1E102VDN | ELECT 1K U M 25V     |
| C1667              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C1800              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C1902              | CEXLB1H100VDN | ELECT 10U M 50V      |
| C1902              | CEXLB1H100WAN | ELECT 10U M 50V      |
| C1904              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C1905              | CC1H470JLZCNG | CERAMIC 47P J 50V    |
| C3200              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C3201              | CK1A105ZLZFNG | CERAMIC 1U Z 10V     |
| C3202              | CK1A105ZLZFNG | CERAMIC 1U Z 10V     |
| C3203              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C3204              | CK1H223KLZBNG | CERAMIC 0.022U K 50V |
| C3205              | CK1H222KLZBNG | CERAMIC 2200P K 50V  |
| C3206              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C3208              | CK1A105ZLZFNG | CERAMIC 1U Z 10V     |
| C3209              | CK1A105ZLZFNG | CERAMIC 1U Z 10V     |
| C3210              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C3211              | CK1A105ZLZFNG | CERAMIC 1U Z 10V     |
| C3212              | CK1A105ZLZFNG | CERAMIC 1U Z 10V     |
| C3213              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C3214              | CK1A105ZLZFNG | CERAMIC 1U Z 10V     |
| C3215              | CK1H222KLZBNG | CERAMIC 2200P K 50V  |
| C3216              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C3218              | CK1C224KLZBNG | CERAMIC 0.22U K 16V  |
| C3219              | CK1A105ZLZFNG | CERAMIC 1U Z 10V     |
| C3220              | CK1A105ZLZFNG | CERAMIC 1U Z 10V     |
| C3221              | CK1A105ZLZFNG | CERAMIC 1U Z 10V     |
| C3222              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C3223              | CEXLB1C222VDN | ELECT 2200U M 16V    |
| C5503              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C5504              | CK1A105ZLZFNG | CERAMIC 1U Z 10V     |
| C5505              | CK1H102KLZBNG | CERAMIC 1000P K 50V  |
| C5506              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C5507              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C5508              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C5509              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |

| Schematic Location | Part No.      | Description         |
|--------------------|---------------|---------------------|
| C5510              | CK1A105ZLZFNG | CERAMIC 1U Z 10V    |
| C5511              | CEXLB1H100VDN | ELECT 10U M 50V     |
| C5511              | CEXLB1H100WAN | ELECT 10U M 50V     |
| C5512              | CEXLB1H100VDN | ELECT 10U M 50V     |
| C5512              | CEXLB1H100WAN | ELECT 10U M 50V     |
| C5513              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5515              | CC1H470JLZCNG | CERAMIC 47P J 50V   |
| C5516              | CC1H470JLZCNG | CERAMIC 47P J 50V   |
| C5517              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5518              | CEXLB1H100VDN | ELECT 10U M 50V     |
| C5518              | CEXLB1H100WAN | ELECT 10U M 50V     |
| C5519              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5521              | CEXLB1H100VDN | ELECT 10U M 50V     |
| C5521              | CEXLB1H100WAN | ELECT 10U M 50V     |
| C5523              | CK1A105ZLZFNG | CERAMIC 1U Z 10V    |
| C5529              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5532              | CK1A105ZLZFNG | CERAMIC 1U Z 10V    |
| C5533              | CEXLB0J221VDN | ELECT 220U M 6.3V   |
| C5533              | CEXLB0J221WAN | ELECT 220U M 6.3V   |
| C5534              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5536              | CEXLB0J221VDN | ELECT 220U M 6.3V   |
| C5536              | CEXLB0J221WAN | ELECT 220U M 6.3V   |
| C5537              | CK1A105ZLZFNG | CERAMIC 1U Z 10V    |
| C5538              | CK1H103ZLZFNG | CERAMIC 0.01U Z 50V |
| C5539              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5542              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5543              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5544              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5545              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5547              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5548              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5549              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5551              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5552              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5553              | CEXLB1V470VDN | ELECT 47U M 35V     |
| C5553              | CEXLB1V470WAN | ELECT 47U M 35V     |
| C5554              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5555              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5557              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5558              | CK1H102KLZBNG | CERAMIC 1000P K 50V |
| C5560              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5564              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5565              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5566              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5567              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5568              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5570              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5572              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5573              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5574              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5575              | CK1A105ZLZFNG | CERAMIC 1U Z 10V    |
| C5576              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5577              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |

| Schematic Location | Part No.      | Description         |
|--------------------|---------------|---------------------|
| C5578              | CEXLB0J221VDN | ELECT 220U M 6.3V   |
| C5578              | CEXLB0J221WAN | ELECT 220U M 6.3V   |
| C5580              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5581              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5582              | CK0J106KGBNG  | CERAMIC 10U K 6.3V  |
| C5583              | CK0J106KGBNG  | CERAMIC 10U K 6.3V  |
| C5701              | CEXLB1V470VDN | ELECT 47U M 35V     |
| C5701              | CEXLB1V470WAN | ELECT 47U M 35V     |
| C5702              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5704              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5705              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5706              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5707              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5708              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5709              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5710              | CK1H103ZLZFNG | CERAMIC 0.01U Z 50V |
| C5711              | CK1H103ZLZFNG | CERAMIC 0.01U Z 50V |
| C5712              | CK1H103ZLZFNG | CERAMIC 0.01U Z 50V |
| C5713              | CK1H103ZLZFNG | CERAMIC 0.01U Z 50V |
| C5714              | CK1H103ZLZFNG | CERAMIC 0.01U Z 50V |
| C5715              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5721              | CK0J475KLZBNG | CERAMIC 4.7U K 6.3V |
| C5801              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5803              | CC1H120JLZCNG | CERAMIC 12P J 50V   |
| C5804              | CC1H150JLZCNG | CERAMIC 15P J 50V   |
| C5805              | CC1H270JLZCNG | CERAMIC 27P J 50V   |
| C5806              | CC1H680JLZCNG | CERAMIC 68P J 50V   |
| C5807              | CK1C224KLZBNG | CERAMIC 0.22U K 16V |
| C5808              | CK1C224KLZBNG | CERAMIC 0.22U K 16V |
| C5809              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5812              | CC1H120JLZCNG | CERAMIC 12P J 50V   |
| C5813              | CC1H150JLZCNG | CERAMIC 15P J 50V   |
| C5814              | CC1H270JLZCNG | CERAMIC 27P J 50V   |
| C5815              | CC1H680JLZCNG | CERAMIC 68P J 50V   |
| C5816              | CK1C224KLZBNG | CERAMIC 0.22U K 16V |
| C5901              | CK1A474KLZBNG | CERAMIC 0.47U K 10V |
| C5904              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C5905              | CEXLB1H100VDN | ELECT 10U M 50V     |
| C5905              | CEXLB1H100WAN | ELECT 10U M 50V     |
| C5959              | CC1H120JLZCNG | CERAMIC 12P J 50V   |
| C6051              | CK1A105ZLZFNG | CERAMIC 1U Z 10V    |
| C6052              | CK1A105ZLZFNG | CERAMIC 1U Z 10V    |
| C6053              | CEXLB0J221VDN | ELECT 220U M 6.3V   |
| C6053              | CEXLB0J221WAN | ELECT 220U M 6.3V   |
| C6054              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C6086              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C6087              | CEXLB1V470VDN | ELECT 47U M 35V     |
| C6087              | CEXLB1V470WAN | ELECT 47U M 35V     |
| C6090              | CEXLB0J221VDN | ELECT 220U M 6.3V   |
| C6090              | CEXLB0J221WAN | ELECT 220U M 6.3V   |
| C6091              | CK1A105ZLZFNG | CERAMIC 1U Z 10V    |
| C6094              | CK1A105ZLZFNG | CERAMIC 1U Z 10V    |
| C6099              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |
| C6103              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V  |

| Schematic Location | Part No.      | Description          |
|--------------------|---------------|----------------------|
| C6105              | CC1H3R0CLZCNG | CERAMIC 3P C 50V     |
| C6106              | CC1H390JLZCNG | CERAMIC 39P J 50V    |
| C6107              | CK1A105ZLZFNG | CERAMIC 1U Z 10V     |
| C6109              | CK1H103ZLZFNG | CERAMIC 0.01U Z 50V  |
| C6127              | CEXLB0J102VDN | ELECT 1000U M 6.3V   |
| C6127              | CEXLB0J102WAN | ELECT 1000U M 6.3V   |
| C6144              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6145              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6151              | CC1H220JLZCNG | CERAMIC 22P J 50V    |
| C6153              | CC1H220JLZCNG | CERAMIC 22P J 50V    |
| C6155              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6170              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6171              | CEXLB1V471WAN | ELECT 470U M 35V     |
| C6172              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6173              | CC1H180JLZCNG | CERAMIC 18P J 50V    |
| C6174              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6175              | CC1H180JLZCNG | CERAMIC 18P J 50V    |
| C6176              | CEXLB0J102VDN | ELECT 1000U M 6.3V   |
| C6176              | CEXLB0J102WAN | ELECT 1000U M 6.3V   |
| C6177              | CEXLB1V471WAN | ELECT 470U M 35V     |
| C6178              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6180              | CK1H102KLZBNG | CERAMIC 1000P K 50V  |
| C6181              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6201              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6202              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6203              | CK1H473KLZBNG | CERAMIC 0.047U K 50V |
| C6204              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6205              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6206              | CK1H473KLZBNG | CERAMIC 0.047U K 50V |
| C6207              | CK1H103ZLZFNG | CERAMIC 0.01U Z 50V  |
| C6208              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6209              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6211              | CK1H473KLZBNG | CERAMIC 0.047U K 50V |
| C6212              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6213              | CK1H473KLZBNG | CERAMIC 0.047U K 50V |
| C6214              | CK1H473KLZBNG | CERAMIC 0.047U K 50V |
| C6215              | CK1H103ZLZFNG | CERAMIC 0.01U Z 50V  |
| C6216              | CK1H473KLZBNG | CERAMIC 0.047U K 50V |
| C6217              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6218              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6219              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6221              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6230              | CEXLB0J221VDN | ELECT 220U M 6.3V    |
| C6230              | CEXLB0J221WAN | ELECT 220U M 6.3V    |
| C6231              | CC1H150JLZCNG | CERAMIC 15P J 50V    |
| C6232              | CC1H150JLZCNG | CERAMIC 15P J 50V    |
| C6233              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6234              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6235              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6236              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6237              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6238              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6239              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |
| C6241              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V   |

| Schematic Location | Part No.      | Description             |
|--------------------|---------------|-------------------------|
| C6242              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C6243              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C6244              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C6245              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C6246              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C6250              | CEXLB1H4R7VDN | ELECT 4.7U M 50V        |
| C6250              | CEXLB1H4R7WAN | ELECT 4.7U M 50V        |
| C6251              | CEXLB1H100VDN | ELECT 10U M 50V         |
| C6251              | CEXLB1H100WAN | ELECT 10U M 50V         |
| C6252              | CEXLB1C101VDN | ELECT 100U M 16V        |
| C6252              | CEXLB1C101WAN | ELECT 100U M 16V        |
| C6253              | CEXLB1H4R7VDN | ELECT 4.7U M 50V        |
| C6253              | CEXLB1H4R7WAN | ELECT 4.7U M 50V        |
| C6254              | CK1A474KLZBNG | CERAMIC 0.47U K 10V     |
| C6255              | CK0J475KLZBNG | CERAMIC 4.7U K 6.3V     |
| C6256              | CK1H123KLZBNG | CERAMIC 0.012U K 50V    |
| C6257              | CK1H562KLZBNG | CERAMIC 5600P K 50V     |
| C6258              | CK0J475KLZBNG | CERAMIC 4.7U K 6.3V     |
| C6259              | CK0J475KLZBNG | CERAMIC 4.7U K 6.3V     |
| C6260              | CK0J475KLZBNG | CERAMIC 4.7U K 6.3V     |
| C6261              | CK1H272KLZBNG | CERAMIC 2700P K 50V     |
| C6262              | CK1H473KLZBNG | CERAMIC 0.047U K 50V    |
| C6263              | CT1A3R3KDRANG | TA-SOLID 3.3U K 10V     |
| C6264              | CK1H472KLZBNG | CERAMIC 4700P K 50V     |
| C6266              | CK0J475KLZBNG | CERAMIC 4.7U K 6.3V     |
| C6267              | CK1A105ZLZFNG | CERAMIC 1U Z 10V        |
| C6268              | CT1A100KDRANG | TA-SOLID 10U K 10V      |
| C6271              | CEXLB1H100VDN | ELECT 10U M 50V         |
| C6271              | CEXLB1H100WAN | ELECT 10U M 50V         |
| C6272              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C6273              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C6274              | CEXLB1H100VDN | ELECT 10U M 50V         |
| C6274              | CEXLB1H100WAN | ELECT 10U M 50V         |
| C6276              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C6277              | CEXLB1H100VDN | ELECT 10U M 50V         |
| C6277              | CEXLB1H100WAN | ELECT 10U M 50V         |
| C6278              | CK1A105ZLZFNG | CERAMIC 1U Z 10V        |
| C6279              | CK1H472KLZBNG | CERAMIC 4700P K 50V     |
| C6281              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C6282              | CEXLB1H100VDN | ELECT 10U M 50V         |
| C6282              | CEXLB1H100WAN | ELECT 10U M 50V         |
| C6283              | CK1A105ZLZFNG | CERAMIC 1U Z 10V        |
| C6284              | CK1H472KLZBNG | CERAMIC 4700P K 50V     |
| C6291              | CEXLB1H4R7VDN | ELECT 4.7U M 50V        |
| C6291              | CEXLB1H4R7WAN | ELECT 4.7U M 50V        |
| C6292              | CEXLB1H4R7VDN | ELECT 4.7U M 50V        |
| C6292              | CEXLB1H4R7WAN | ELECT 4.7U M 50V        |
| C6330              | CEXLB1V470VDN | ELECT 47U M 35V         |
| C6330              | CEXLB1V470WAN | ELECT 47U M 35V         |
| C6331              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C6332              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C6333              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C6334              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| C6335              | CK1H103ZLZFNG | CERAMIC 0.01U Z 50V     |

| Schematic Location | Part No.      | Description             |
|--------------------|---------------|-------------------------|
| C6336              | CK1H103ZLZFNG | CERAMIC 0.01U Z 50V     |
| C6337              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| C6338              | CK0J475KLZBNG | CERAMIC 4.7U K 6.3V     |
| C6339              | CK0J475KLZBNG | CERAMIC 4.7U K 6.3V     |
| C6340              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C6341              | CEXLB0J221VDN | ELECT 220U M 6.3V       |
| C6341              | CEXLB0J221WAN | ELECT 220U M 6.3V       |
| C6344              | CEXLB1C101VDN | ELECT 100U M 16V        |
| C6344              | CEXLB1C101WAN | ELECT 100U M 16V        |
| C6354              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C6355              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C6361              | CK1A105ZLZFNG | CERAMIC 1U Z 10V        |
| C6362              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C6363              | CEXLB1H4R7VDN | ELECT 4.7U M 50V        |
| C6363              | CEXLB1H4R7WAN | ELECT 4.7U M 50V        |
| C6364              | CEXLB1C101VDN | ELECT 100U M 16V        |
| C6364              | CEXLB1C101WAN | ELECT 100U M 16V        |
| C6365              | CK1H104ZLZFNG | CERAMIC 0.1U Z 50V      |
| C6367              | CK1A105ZLZFNG | CERAMIC 1U Z 10V        |
| C6565              | CK0J475KLZBNG | CERAMIC 4.7U K 6.3V     |

## DIODES

|       |               |                            |
|-------|---------------|----------------------------|
| D801  | DD1SS352----G | DIODE 1SS352-(TPH3)        |
| D801  | DD1SS355----G | DIODE 1SS355 TE-17         |
| D802  | DZUDZS6.2B--G | ZENER DIODE UDZS6.2B TE-17 |
| D1600 | DDD1FM3-----G | DIODE D1FM3                |
| D1602 | DD1SS352----G | DIODE 1SS352-(TPH3)        |
| D1602 | DD1SS355----G | DIODE 1SS355 TE-17         |
| D1604 | DZUDZS3.0B--G | ZD UDZS3.0B-TE-17          |
| D1610 | DZUDZS3.9B--G | ZD UDZS-TE-173.9B          |
| D1620 | DDD1FH3-----G | DIODE D1FH3                |
| D1621 | DD1SS352----G | DIODE 1SS352-(TPH3)        |
| D1621 | DD1SS355----G | DIODE 1SS355 TE-17         |
| D1630 | DDD1FH3-----G | DIODE D1FH3                |
| D1631 | DD1SS352----G | DIODE 1SS352-(TPH3)        |
| D1631 | DD1SS355----G | DIODE 1SS355 TE-17         |
| D1640 | DD1SS352----G | DIODE 1SS352-(TPH3)        |
| D1640 | DD1SS355----G | DIODE 1SS355 TE-17         |
| D1660 | DDD1FM3-----G | DIODE D1FM3                |
| D1661 | DD1SS352----G | DIODE 1SS352-(TPH3)        |
| D1661 | DD1SS355----G | DIODE 1SS355 TE-17         |
| D1683 | DD1SS352----G | DIODE 1SS352-(TPH3)        |
| D1683 | DD1SS355----G | DIODE 1SS355 TE-17         |
| D1902 | DLSLR343MC3FN | LED SLR-343MC3F            |
| D3216 | DDRB551V-30-G | DIODE RB551V-30 TE-17      |
| D6250 | DD1SS355----G | DIODE 1SS355 TE-17         |

## INTEGRATED CIRCUITS

|       |               |                       |
|-------|---------------|-----------------------|
| IC001 | QLA42032-E--N | IC LA42032-E          |
| IC801 | QXXAVC880---M | IC LC874164A-58S8-E   |
| IC802 | QLE24C042M-EP | IC LE24C042M-TLM-E    |
| IC802 | QXXAVC820---P | IC AT24C04N-10SU-1.8  |
| IC802 | QXXAVC844---P | IC CAT24C04WI-GT3     |
| IC802 | QXXGA0500017P | IC LE24C0411M-TLM-E-C |

| Schematic Location | Part No.      | Description         |
|--------------------|---------------|---------------------|
| IC805              | QTC7SH08FU--P | IC TC7SH08FU        |
| IC806              | QTC7SET08FU-P | IC TC7SET08FU       |
| IC1201             | QCD4052BNSR-P | IC CD4052BNSR       |
| IC1201             | QTC4052BF---P | IC TC4052BF-EL      |
| IC1251             | QCD4052BNSR-P | IC CD4052BNSR       |
| IC1251             | QTC4052BF---P | IC TC4052BF-EL      |
| IC1600             | QLA5774MPE--P | IC LA5774MP-DL-E    |
| IC1610             | QPQ070XNA1ZPP | IC PQ070XNA1ZPH     |
| IC1620             | QXXAVC830---P | IC PQ6CU12X2APQ     |
| IC1630             | QPQ1CZ41H2FPK | IC PQ1CZ41H2FPH     |
| IC1640             | QXXAVC692---P | IC PQ1LAX95MSPQ     |
| IC1660             | QLA5774MPE--P | IC LA5774MP-DL-E    |
| IC3200             | QNJW1142AV--P | IC NJW1142AV        |
| IC5500             | QXXAVC921---M | IC ZR39760HGCF-A1   |
| IC5700             | QXXAVC926---M | IC EDD2516AETA-5B-E |
| IC5750             | QXXAVC948A--P | IC QXXAVC948A--P    |
| IC5750             | QXXAVC948B--P | IC QXXAVC948B--P    |
| IC5750             | QXXAVC948---P | IC QXXAVC948---P    |
| IC5900             | QM51957BFP--P | IC M51957BFP        |
| IC6050             | QPQ070XNA1ZPP | IC PQ070XNA1ZPH     |
| IC6090             | QPQ070XNA1ZPP | IC PQ070XNA1ZPH     |
| IC6200             | QXXAVC650---M | IC ISL98001CQZ-140  |
| IC6250             | QCXA2207N---P | IC CXA2207N-T6      |
| IC6270             | QXXAVC859---P | IC WM8738GED/RV     |
| IC6301             | QCD4052BNSR-P | IC CD4052BNSR       |
| IC6301             | QTC4052BF---P | IC TC4052BF-EL      |
| IC6330             | QCS4352-CZZ-P | IC CS4352-CZZ       |

### COILS

|       |                |                         |
|-------|----------------|-------------------------|
| L001  | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L002  | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L003  | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L004  | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1000 | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1201 | 1AV4L2FB3R3MG  | INDUCTOR, 3.3U M        |
| L1202 | 1AV4L2FB3R3MG  | INDUCTOR, 3.3U M        |
| L1600 | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1601 | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1603 | 1AV4L2WK150MMN | INDUCTOR, 15U M         |
| L1603 | 1LB4L26B1000N  | INDUCTOR, 15UH          |
| L1610 | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1611 | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1612 | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1615 | 1LB4L26B0740G  | INDUCTOR, 220 OHM       |
| L1616 | 1LB4L26B0740G  | INDUCTOR, 220 OHM       |
| L1617 | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1618 | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1619 | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1620 | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1621 | 1AV4L2WK560MMN | INDUCTOR, 56U M         |
| L1621 | 1LB4L26B1030N  | INDUCTOR, 56UH          |
| L1622 | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1630 | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1631 | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |

| Schematic Location | Part No.       | Description             |
|--------------------|----------------|-------------------------|
| L1632              | 1AV4L2WK560MMN | INDUCTOR, 56U M         |
| L1632              | 1LB4L26B1030N  | INDUCTOR, 56UH          |
| L1640              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1656              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1657              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1658              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1659              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1660              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1661              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1663              | 1AV4L2WK680MMN | INDUCTOR, 68U M         |
| L1663              | 1LB4L26B1040N  | INDUCTOR, 68UH          |
| L1665              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1666              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1669              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1670              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1672              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1675              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1676              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1686              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1687              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1688              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1689              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1690              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1691              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1701              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1704              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1705              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1706              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1707              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1800              | 1AV4L2FB3R3MG  | INDUCTOR, 3.3U M        |
| L1802              | 1AV4L2FB3R3MG  | INDUCTOR, 3.3U M        |
| L1803              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L1901              | 1AV4L2B95R6KN  | INDUCTOR, 5.6U K        |
| L1901              | 1AV4L2GU5R6KN  | INDUCTOR, 5.6U K        |
| L2001              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L2002              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L2003              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L2004              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L2006              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L2007              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L2009              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L2011              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L2012              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L2014              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L2015              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L2016              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L2017              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L5500              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L5506              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L5508              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L5510              | 1LB4L26B0740G  | INDUCTOR, 220 OHM       |
| L5511              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L5512              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |
| L5513              | RGFR000ZTAANL  | MT-GLAZE 0.000 ZA 1/10W |



| Schematic Location | Part No.      | Description             |
|--------------------|---------------|-------------------------|
| L5514              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L5516              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L5545              | 1AV4L2WK150MN | INDUCTOR, 15U M         |
| L5545              | 1LB4L26B1000N | INDUCTOR, 15UH          |
| L5553              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L5565              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L5566              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L5750              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L5800              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L5801              | 1AV4L2GA150JG | INDUCTOR, 15U J         |
| L5802              | 1AV4L2GA150JG | INDUCTOR, 15U J         |
| L6050              | 1LB4L26B0740G | INDUCTOR, 220 OHM       |
| L6051              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6052              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6091              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6100              | 1AV4L2GAR22JG | INDUCTOR, 0.22U J       |
| L6101              | 1LB4L26B0740G | INDUCTOR, 220 OHM       |
| L6120              | 1AV4L26B1940G | INDUCTOR, 120 OHM       |
| L6120              | 1LB4L26B0700G | INDUCTOR, 120 OHM       |
| L6122              | 1AV4L26B1940G | INDUCTOR, 120 OHM       |
| L6122              | 1LB4L26B0700G | INDUCTOR, 120 OHM       |
| L6150              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6151              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6153              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6154              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6155              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6157              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6159              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6161              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6162              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6168              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6169              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6170              | 1AV4L2FB3R3MG | INDUCTOR, 3.3U M        |
| L6171              | 1AV4L2FB3R3MG | INDUCTOR, 3.3U M        |
| L6172              | 1AV4L2FB3R3MG | INDUCTOR, 3.3U M        |
| L6174              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6176              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6178              | 1AV4L26B1940G | INDUCTOR, 120 OHM       |
| L6178              | 1LB4L26B0700G | INDUCTOR, 120 OHM       |
| L6179              | 1AV4L26B1940G | INDUCTOR, 120 OHM       |
| L6179              | 1LB4L26B0700G | INDUCTOR, 120 OHM       |
| L6188              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6189              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6201              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6202              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6203              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6204              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6206              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6220              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6221              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6222              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6223              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6224              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6225              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |

| Schematic Location | Part No.      | Description             |
|--------------------|---------------|-------------------------|
| L6226              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6227              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6250              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6270              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6271              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6277              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6279              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6282              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6332              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6333              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6334              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6335              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6354              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6355              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6357              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6358              | 1AV4L3EK201-G | IMPEDANCE, 200 OHM -    |
| L6359              | 1AV4L3EK201-G | IMPEDANCE, 200 OHM -    |
| L6360              | 1AV4L3EK201-G | IMPEDANCE, 200 OHM -    |
| L6361              | 1AV4L3EK201-G | IMPEDANCE, 200 OHM -    |
| L6362              | 1AV4L3EK201-G | IMPEDANCE, 200 OHM -    |
| L6393              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6394              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6395              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6396              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6550              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6551              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6552              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6555              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6556              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6557              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6558              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6559              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6566              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6567              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6568              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6569              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| L6701              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |

## TRANSISTORS

|      |               |                    |
|------|---------------|--------------------|
| Q101 | T2SC2412K-R-P | TR 2SC2412K-T-96-R |
| Q101 | T2SC2412K-S-P | TR 2SC2412K-T-96-S |
| Q101 | T2SC2812-L6-P | TR 2SC2812-L6-TB   |
| Q101 | T2SC2812-L7-P | TR 2SC2812-L7-TB   |
| Q101 | T2SC2812N-L6P | TR 2SC2812N-L6-TB  |
| Q101 | T2SC3928A1R-P | TR 2SC3928A1R      |
| Q101 | T2SC3928A1S-P | TR 2SC3928A1S      |
| Q801 | T2SC2412K-R-P | TR 2SC2412K-T-96-R |
| Q801 | T2SC2412K-S-P | TR 2SC2412K-T-96-S |
| Q801 | T2SC2812-L6-P | TR 2SC2812-L6-TB   |
| Q801 | T2SC2812-L7-P | TR 2SC2812-L7-TB   |
| Q801 | T2SC2812N-L6P | TR 2SC2812N-L6-TB  |
| Q801 | T2SC3928A1R-P | TR 2SC3928A1R      |
| Q801 | T2SC3928A1S-P | TR 2SC3928A1S      |
| Q803 | T2SC2412K-R-P | TR 2SC2412K-T-96-R |

| Schematic Location | Part No.      | Description         |
|--------------------|---------------|---------------------|
| Q803               | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q803               | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q803               | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q803               | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q803               | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q803               | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q804               | T2SA1037AK-RP | TR 2SA1037AK T146 R |
| Q804               | T2SA1037AK-SP | TR 2SA1037AK T146 S |
| Q804               | T2SA1037K-R-P | TR 2SA1037K-T-96-R  |
| Q804               | T2SA1037K-S-P | TR 2SA1037K-T-96-S  |
| Q804               | T2SA1179-M6-P | TR 2SA1179-M6       |
| Q804               | T2SA1179-M7-P | TR 2SA1179-M7-TB    |
| Q804               | T2SA1179N-M6P | TR 2SA1179N-M6-TB   |
| Q804               | T2SA1235A1E-P | TR 2SA1235A1E       |
| Q804               | T2SA1235A1F-P | TR 2SA1235A1F       |
| Q1006              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q1006              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q1006              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q1006              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q1006              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q1006              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q1006              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q1007              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q1007              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q1007              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q1007              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q1007              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q1007              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q1007              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q1200              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q1200              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q1200              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q1200              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q1200              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q1200              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q1200              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q1201              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q1201              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q1201              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q1201              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q1201              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q1201              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q1201              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q1202              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q1202              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q1202              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q1202              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q1202              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q1202              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q1202              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q1203              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q1203              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q1203              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q1203              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |

| Schematic Location | Part No.      | Description         |
|--------------------|---------------|---------------------|
| Q1203              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q1203              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q1203              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q1251              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q1251              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q1251              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q1251              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q1251              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q1251              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q1251              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q1252              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q1252              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q1252              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q1252              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q1252              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q1252              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q1252              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q1261              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q1261              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q1261              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q1261              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q1261              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q1261              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q1261              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q1262              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q1262              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q1262              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q1262              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q1262              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q1262              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q1262              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q1600              | T2SA1037AK-RP | TR 2SA1037AK T146 R |
| Q1600              | T2SA1037AK-SP | TR 2SA1037AK T146 S |
| Q1600              | T2SA1037K-R-P | TR 2SA1037K-T-96-R  |
| Q1600              | T2SA1037K-S-P | TR 2SA1037K-T-96-S  |
| Q1600              | T2SA1179-M6-P | TR 2SA1179-M6       |
| Q1600              | T2SA1179-M7-P | TR 2SA1179-M7-TB    |
| Q1600              | T2SA1179N-M6P | TR 2SA1179N-M6-TB   |
| Q1600              | T2SA1235A1E-P | TR 2SA1235A1E       |
| Q1600              | T2SA1235A1F-P | TR 2SA1235A1F       |
| Q1601              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q1601              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q1601              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q1601              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q1601              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q1601              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q1601              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q1603              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q1603              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q1603              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q1603              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q1603              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q1603              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q1603              | T2SC3928A1S-P | TR 2SC3928A1S       |

| Schematic Location | Part No.      | Description         |
|--------------------|---------------|---------------------|
| Q1605              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q1605              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q1605              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q1605              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q1605              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q1605              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q1605              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q1606              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q1606              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q1606              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q1606              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q1606              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q1606              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q1606              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q1661              | T2SA1037AK-RP | TR 2SA1037AK T146 R |
| Q1661              | T2SA1037AK-SP | TR 2SA1037AK T146 S |
| Q1661              | T2SA1037K-R-P | TR 2SA1037K-T-96-R  |
| Q1661              | T2SA1037K-S-P | TR 2SA1037K-T-96-S  |
| Q1661              | T2SA1179-M6-P | TR 2SA1179-M6       |
| Q1661              | T2SA1179-M7-P | TR 2SA1179-M7-TB    |
| Q1661              | T2SA1179N-M6P | TR 2SA1179N-M6-TB   |
| Q1661              | T2SA1235A1E-P | TR 2SA1235A1E       |
| Q1661              | T2SA1235A1F-P | TR 2SA1235A1F       |
| Q1804              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q1804              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q1804              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q1804              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q1804              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q1804              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q1804              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q1871              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q1871              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q1871              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q1871              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q1871              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q1871              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q1871              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q5545              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q5545              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q5545              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q5545              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q5545              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q5545              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q5545              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q5801              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q5801              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q5801              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q5801              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q5801              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q5801              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q5801              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q5802              | T2SA1037AK-RP | TR 2SA1037AK T146 R |
| Q5802              | T2SA1037AK-SP | TR 2SA1037AK T146 S |
| Q5802              | T2SA1037K-R-P | TR 2SA1037K-T-96-R  |

| Schematic Location | Part No.      | Description         |
|--------------------|---------------|---------------------|
| Q5802              | T2SA1037K-S-P | TR 2SA1037K-T-96-S  |
| Q5802              | T2SA1179-M6-P | TR 2SA1179-M6       |
| Q5802              | T2SA1179-M7-P | TR 2SA1179-M7-TB    |
| Q5802              | T2SA1179N-M6P | TR 2SA1179N-M6-TB   |
| Q5802              | T2SA1235A1E-P | TR 2SA1235A1E       |
| Q5802              | T2SA1235A1F-P | TR 2SA1235A1F       |
| Q5803              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q5803              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q5803              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q5803              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q5803              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q5803              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q5803              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q5804              | T2SA1037AK-RP | TR 2SA1037AK T146 R |
| Q5804              | T2SA1037AK-SP | TR 2SA1037AK T146 S |
| Q5804              | T2SA1037K-R-P | TR 2SA1037K-T-96-R  |
| Q5804              | T2SA1037K-S-P | TR 2SA1037K-T-96-S  |
| Q5804              | T2SA1179-M6-P | TR 2SA1179-M6       |
| Q5804              | T2SA1179-M7-P | TR 2SA1179-M7-TB    |
| Q5804              | T2SA1179N-M6P | TR 2SA1179N-M6-TB   |
| Q5804              | T2SA1235A1E-P | TR 2SA1235A1E       |
| Q5804              | T2SA1235A1F-P | TR 2SA1235A1F       |
| Q5901              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q5901              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q5901              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q5901              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q5901              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q5901              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q5901              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q5902              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q5902              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q5902              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q5902              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q5902              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q5902              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q5902              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q6100              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q6100              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q6100              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q6100              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q6100              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q6100              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q6100              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q6101              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q6101              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q6101              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q6101              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q6101              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q6101              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q6101              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q6250              | T2SA1037AK-RP | TR 2SA1037AK T146 R |
| Q6250              | T2SA1037AK-SP | TR 2SA1037AK T146 S |
| Q6250              | T2SA1037K-R-P | TR 2SA1037K-T-96-R  |
| Q6250              | T2SA1037K-S-P | TR 2SA1037K-T-96-S  |

| Schematic Location | Part No.      | Description         |
|--------------------|---------------|---------------------|
| Q6250              | T2SA1179-M6-P | TR 2SA1179-M6       |
| Q6250              | T2SA1179-M7-P | TR 2SA1179-M7-TB    |
| Q6250              | T2SA1179N-M6P | TR 2SA1179N-M6-TB   |
| Q6250              | T2SA1235A1E-P | TR 2SA1235A1E       |
| Q6250              | T2SA1235A1F-P | TR 2SA1235A1F       |
| Q6251              | T2SA1037AK-RP | TR 2SA1037AK T146 R |
| Q6251              | T2SA1037AK-SP | TR 2SA1037AK T146 S |
| Q6251              | T2SA1037K-R-P | TR 2SA1037K-T-96-R  |
| Q6251              | T2SA1037K-S-P | TR 2SA1037K-T-96-S  |
| Q6251              | T2SA1179-M6-P | TR 2SA1179-M6       |
| Q6251              | T2SA1179-M7-P | TR 2SA1179-M7-TB    |
| Q6251              | T2SA1179N-M6P | TR 2SA1179N-M6-TB   |
| Q6251              | T2SA1235A1E-P | TR 2SA1235A1E       |
| Q6251              | T2SA1235A1F-P | TR 2SA1235A1F       |
| Q6360              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q6360              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q6360              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q6360              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q6360              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q6360              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q6360              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q6362              | T2SC2412K-R-P | TR 2SC2412K-T-96-R  |
| Q6362              | T2SC2412K-S-P | TR 2SC2412K-T-96-S  |
| Q6362              | T2SC2812-L6-P | TR 2SC2812-L6-TB    |
| Q6362              | T2SC2812-L7-P | TR 2SC2812-L7-TB    |
| Q6362              | T2SC2812N-L6P | TR 2SC2812N-L6-TB   |
| Q6362              | T2SC3928A1R-P | TR 2SC3928A1R       |
| Q6362              | T2SC3928A1S-P | TR 2SC3928A1S       |
| Q6363              | TMCH6306----P | TR MCH6306-TL       |
| Q6365              | T2SA1037AK-RP | TR 2SA1037AK T146 R |
| Q6365              | T2SA1037AK-SP | TR 2SA1037AK T146 S |
| Q6365              | T2SA1037K-R-P | TR 2SA1037K-T-96-R  |
| Q6365              | T2SA1037K-S-P | TR 2SA1037K-T-96-S  |
| Q6365              | T2SA1179-M6-P | TR 2SA1179-M6       |
| Q6365              | T2SA1179-M7-P | TR 2SA1179-M7-TB    |
| Q6365              | T2SA1179N-M6P | TR 2SA1179N-M6-TB   |
| Q6365              | T2SA1235A1E-P | TR 2SA1235A1E       |
| Q6365              | T2SA1235A1F-P | TR 2SA1235A1F       |

## RESISTORS

|        |               |           |            |
|--------|---------------|-----------|------------|
| RB5571 | 1AV4R1D31504G | R-NETWORK | 15X4 1/32W |
| RB5572 | 1AV4R1D31504G | R-NETWORK | 15X4 1/32W |
| RB5573 | 1AV4R1D31504G | R-NETWORK | 15X4 1/32W |
| RB5574 | 1AV4R1D31504G | R-NETWORK | 15X4 1/32W |
| RB5575 | 1AV4R1D31504G | R-NETWORK | 15X4 1/32W |
| RB5576 | 1AV4R1D31504G | R-NETWORK | 15X4 1/32W |
| RB5577 | 1AV4R1D31504G | R-NETWORK | 15X4 1/32W |
| RB5578 | 1AV4R1D31504G | R-NETWORK | 15X4 1/32W |
| RB5583 | 1AV4R1D31504G | R-NETWORK | 15X4 1/32W |
| RB6201 | 1AV4R1D33304G | R-NETWORK | 33X4 1/32W |
| RB6202 | 1AV4R1D33304G | R-NETWORK | 33X4 1/32W |
| RB6203 | 1AV4R1D33304G | R-NETWORK | 33X4 1/32W |
| RB6204 | 1AV4R1D33304G | R-NETWORK | 33X4 1/32W |

| Schematic Location | Part No.      | Description             |
|--------------------|---------------|-------------------------|
| RB6205             | 1AV4R1D33304G | R-NETWORK 33X4 1/32W    |
| RB6206             | 1AV4R1D33304G | R-NETWORK 33X4 1/32W    |
| RB6330             | 1AV4R1D31504G | R-NETWORK 15X4 1/32W    |
| RB6355             | 1AV4R1D30R04G | R-NETWORK 0X4 1/32W     |
| R001               | RGF3301JTCANL | MT-GLAZE 3.3K JA 1/10W  |
| R002               | RGF3301JTCANL | MT-GLAZE 3.3K JA 1/10W  |
| R003               | RGF1801JTCANL | MT-GLAZE 1.8K JA 1/10W  |
| R004               | RGF1801JTCANL | MT-GLAZE 1.8K JA 1/10W  |
| R005               | RGAR000ZTDANL | MT-GLAZE 0.000 ZA 1/2W  |
| R006               | RGAR000ZTDANL | MT-GLAZE 0.000 ZA 1/2W  |
| R008               | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R014               | RGB2R20JTBANL | MT-GLAZE 2.2 JA 1/4W    |
| R015               | RGB2R20JTBANL | MT-GLAZE 2.2 JA 1/4W    |
| R016               | RGB2R20JTBANL | MT-GLAZE 2.2 JA 1/4W    |
| R017               | RGB2R20JTBANL | MT-GLAZE 2.2 JA 1/4W    |
| R105               | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R109               | RGF4700JTCANL | MT-GLAZE 470 JA 1/10W   |
| R110               | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R802               | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R803               | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R804               | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R807               | RGF6801JTCANL | MT-GLAZE 6.8K JA 1/10W  |
| R809               | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R812               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R814               | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R815               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R816               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R817               | RGF1004JTCANL | MT-GLAZE 1M JA 1/10W    |
| R821               | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R822               | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R823               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R824               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R828               | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R829               | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R830               | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R831               | RGF4702JTCANL | MT-GLAZE 47K JA 1/10W   |
| R832               | RGF4702JTCANL | MT-GLAZE 47K JA 1/10W   |
| R833               | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R834               | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R838               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R839               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R840               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R841               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R842               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R843               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R844               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R845               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R846               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R847               | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R848               | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R849               | RGF1003JTCANL | MT-GLAZE 100K JA 1/10W  |
| R850               | RGF1003JTCANL | MT-GLAZE 100K JA 1/10W  |
| R851               | RGF1003JTCANL | MT-GLAZE 100K JA 1/10W  |

| Schematic Location | Part No.      | Description             |
|--------------------|---------------|-------------------------|
| R854               | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R855               | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R856               | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R857               | RGF1003JTCANL | MT-GLAZE 100K JA 1/10W  |
| R858               | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R859               | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R860               | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R861               | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R862               | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R863               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R864               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R865               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R867               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R868               | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R873               | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R874               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R875               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R883               | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R884               | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R885               | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R888               | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R889               | RGF1004JTCANL | MT-GLAZE 1M JA 1/10W    |
| R890               | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R891               | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R893               | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R895               | RGF4703JTCANL | MT-GLAZE 470K JA 1/10W  |
| R1000              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R1001              | RGF75R0JTCANL | MT-GLAZE 75 JA 1/10W    |
| R1002              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R1003              | RGF75R0JTCANL | MT-GLAZE 75 JA 1/10W    |
| R1004              | RGF2200JTCANL | MT-GLAZE 220 JA 1/10W   |
| R1005              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R1006              | RGF75R0JTCANL | MT-GLAZE 75 JA 1/10W    |
| R1007              | RGF2203JTCANL | MT-GLAZE 220K JA 1/10W  |
| R1008              | RGF2203JTCANL | MT-GLAZE 220K JA 1/10W  |
| R1009              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R1010              | RGF3303JTCANL | MT-GLAZE 330K JA 1/10W  |
| R1011              | RGF2203JTCANL | MT-GLAZE 220K JA 1/10W  |
| R1012              | RGF2203JTCANL | MT-GLAZE 220K JA 1/10W  |
| R1013              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R1014              | RGF3303JTCANL | MT-GLAZE 330K JA 1/10W  |
| R1016              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R1019              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R1020              | RGF75R0JTCANL | MT-GLAZE 75 JA 1/10W    |
| R1025              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R1026              | RGF75R0JTCANL | MT-GLAZE 75 JA 1/10W    |
| R1031              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R1032              | RGF75R0JTCANL | MT-GLAZE 75 JA 1/10W    |
| R1037              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R1038              | RGF75R0JTCANL | MT-GLAZE 75 JA 1/10W    |
| R1043              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R1044              | RGF75R0JTCANL | MT-GLAZE 75 JA 1/10W    |
| R1049              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R1050              | RGF75R0JTCANL | MT-GLAZE 75 JA 1/10W    |

| Schematic Location | Part No.      | Description             |
|--------------------|---------------|-------------------------|
| R1051              | RGF4700JTCANL | MT-GLAZE 470 JA 1/10W   |
| R1052              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R1053              | RGF1003JTCANL | MT-GLAZE 100K JA 1/10W  |
| R1054              | RGF4700JTCANL | MT-GLAZE 470 JA 1/10W   |
| R1055              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R1056              | RGF1003JTCANL | MT-GLAZE 100K JA 1/10W  |
| R1057              | RGF2203JTCANL | MT-GLAZE 220K JA 1/10W  |
| R1058              | RGF2203JTCANL | MT-GLAZE 220K JA 1/10W  |
| R1059              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R1060              | RGF3303JTCANL | MT-GLAZE 330K JA 1/10W  |
| R1061              | RGF2203JTCANL | MT-GLAZE 220K JA 1/10W  |
| R1062              | RGF2203JTCANL | MT-GLAZE 220K JA 1/10W  |
| R1063              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R1064              | RGF3303JTCANL | MT-GLAZE 330K JA 1/10W  |
| R1065              | RGF2203JTCANL | MT-GLAZE 220K JA 1/10W  |
| R1066              | RGF2203JTCANL | MT-GLAZE 220K JA 1/10W  |
| R1067              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R1068              | RGF3303JTCANL | MT-GLAZE 330K JA 1/10W  |
| R1069              | RGF2203JTCANL | MT-GLAZE 220K JA 1/10W  |
| R1070              | RGF2203JTCANL | MT-GLAZE 220K JA 1/10W  |
| R1071              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R1072              | RGF3303JTCANL | MT-GLAZE 330K JA 1/10W  |
| R1073              | RGF75R0JTCANL | MT-GLAZE 75 JA 1/10W    |
| R1074              | RGF82R0JTCANL | MT-GLAZE 82 JA 1/10W    |
| R1075              | RGF82R0JTCANL | MT-GLAZE 82 JA 1/10W    |
| R1200              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R1201              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R1202              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1203              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1204              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R1205              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1206              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1207              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1208              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1209              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R1210              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1211              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1212              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R1253              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R1254              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1255              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1256              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1257              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1261              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R1262              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R1263              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R1264              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R1265              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R1266              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R1267              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R1269              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R1271              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R1600              | RGF3300FTCANL | MT-GLAZE 330 FA 1/10W   |
| R1601              | RGF1800FTCANL | MT-GLAZE 180 FA 1/10W   |

| Schematic Location | Part No.      | Description             |
|--------------------|---------------|-------------------------|
| R1602              | RGF1001FTCANL | MT-GLAZE 1K FA 1/10W    |
| R1606              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1607              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1608              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1609              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R1611              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1612              | RGF5600FTCANL | MT-GLAZE 560 FA 1/10W   |
| R1614              | RGF4700JTCANL | MT-GLAZE 470 JA 1/10W   |
| R1615              | RGF2202JTCANL | MT-GLAZE 22K JA 1/10W   |
| R1616              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1617              | RGF1501FTCANL | MT-GLAZE 1.5K FA 1/10W  |
| R1618              | RGF1201FTCANL | MT-GLAZE 1.2K FA 1/10W  |
| R1619              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1620              | RGF2702FTCANL | MT-GLAZE 27K FA 1/10W   |
| R1621              | RGF1002FTCANL | MT-GLAZE 10K FA 1/10W   |
| R1622              | RGF1201FTCANL | MT-GLAZE 1.2K FA 1/10W  |
| R1623              | RGF1203JTCANL | MT-GLAZE 120K JA 1/10W  |
| R1624              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1625              | RGF4702JTCANL | MT-GLAZE 47K JA 1/10W   |
| R1626              | RGF1202JTCANL | MT-GLAZE 12K JA 1/10W   |
| R1630              | RGF1501FTCANL | MT-GLAZE 1.5K FA 1/10W  |
| R1631              | RGF1501FTCANL | MT-GLAZE 1.5K FA 1/10W  |
| R1632              | RGF1001FTCANL | MT-GLAZE 1K FA 1/10W    |
| R1640              | RGF6801FTCANL | MT-GLAZE 6.8K FA 1/10W  |
| R1641              | RGF5602FTCANL | MT-GLAZE 56K FA 1/10W   |
| R1642              | RGF1002FTCANL | MT-GLAZE 10K FA 1/10W   |
| R1646              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R1647              | 1AV4L26B1940G | INDUCTOR, 120 OHM       |
| R1647              | 1LB4L26B0700G | INDUCTOR, 120 OHM       |
| R1648              | 1AV4L26B1940G | INDUCTOR, 120 OHM       |
| R1648              | 1LB4L26B0700G | INDUCTOR, 120 OHM       |
| R1649              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1656              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| R1657              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1658              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1660              | RGF1501FTCANL | MT-GLAZE 1.5K FA 1/10W  |
| R1664              | RGF1501FTCANL | MT-GLAZE 1.5K FA 1/10W  |
| R1665              | RGF1001FTCANL | MT-GLAZE 1K FA 1/10W    |
| R1666              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1667              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R1668              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1673              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R1674              | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R1675              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| △R1685             | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| R1687              | RGF3302JTCANL | MT-GLAZE 33K JA 1/10W   |
| R1688              | RGF2202JTCANL | MT-GLAZE 22K JA 1/10W   |
| R1690              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R1695              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R1697              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R1698              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R1699              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R1800              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R1802              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |

| Schematic Location | Part No.      | Description             |
|--------------------|---------------|-------------------------|
| R1803              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R1806              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R1807              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R1808              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R1809              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R1827              | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R1828              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R1829              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R1830              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R1831              | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R1832              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1835              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R1838              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R1853              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R1854              | RGF4702JTCANL | MT-GLAZE 47K JA 1/10W   |
| R1857              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R1859              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R1861              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R1871              | RGF3300JTCANL | MT-GLAZE 330 JA 1/10W   |
| R1872              | RGF2202JTCANL | MT-GLAZE 22K JA 1/10W   |
| R1874              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R1901              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R1902              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R1903              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R1904              | RGF1801JTCANL | MT-GLAZE 1.8K JA 1/10W  |
| R1905              | RGF2201JTCANL | MT-GLAZE 2.2K JA 1/10W  |
| R1906              | RGF3901JTCANL | MT-GLAZE 3.9K JA 1/10W  |
| R1907              | RGF5601JTCANL | MT-GLAZE 5.6K JA 1/10W  |
| R1909              | RGF2200JTCANL | MT-GLAZE 220 JA 1/10W   |
| R1910              | RGF2200JTCANL | MT-GLAZE 220 JA 1/10W   |
| R1911              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R1912              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R3200              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R3201              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R5504              | RGFR000ZTAANL | MT-GLAZE 0.000 ZA 1/10W |
| R5507              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R5508              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R5509              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R5510              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R5513              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R5514              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R5515              | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R5516              | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R5517              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R5518              | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R5519              | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R5520              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R5521              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R5523              | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R5524              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R5525              | RGF3900FTCANL | MT-GLAZE 390 FA 1/10W   |
| R5527              | RGF3302JTCANL | MT-GLAZE 33K JA 1/10W   |
| R5528              | RGF8200FTCANL | MT-GLAZE 820 FA 1/10W   |
| R5529              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |

| Schematic Location | Part No.      | Description             |
|--------------------|---------------|-------------------------|
| R5532              | RGF1501JTCANL | MT-GLAZE 1.5K JA 1/10W  |
| R5538              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R5540              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R5542              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R5545              | RGF2201JTCANL | MT-GLAZE 2.2K JA 1/10W  |
| R5546              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R5547              | RGF3301JTCANL | MT-GLAZE 3.3K JA 1/10W  |
| R5548              | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R5549              | RGF1502JTCANL | MT-GLAZE 15K JA 1/10W   |
| R5550              | RGF33R0JTCANL | MT-GLAZE 33 JA 1/10W    |
| R5551              | RGF33R0JTCANL | MT-GLAZE 33 JA 1/10W    |
| R5552              | RGF33R0JTCANL | MT-GLAZE 33 JA 1/10W    |
| R5553              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R5557              | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R5558              | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R5559              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R5560              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R5561              | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R5564              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R5565              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R5566              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R5567              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R5568              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R5569              | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R5570              | RGF4702JTCANL | MT-GLAZE 47K JA 1/10W   |
| R5572              | RGF15R0JTCANL | MT-GLAZE 15 JA 1/10W    |
| R5573              | RGF15R0JTCANL | MT-GLAZE 15 JA 1/10W    |
| R5574              | RGF15R0JTCANL | MT-GLAZE 15 JA 1/10W    |
| R5575              | RGF15R0JTCANL | MT-GLAZE 15 JA 1/10W    |
| R5576              | RGF15R0JTCANL | MT-GLAZE 15 JA 1/10W    |
| R5577              | RGF15R0JTCANL | MT-GLAZE 15 JA 1/10W    |
| R5578              | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R5579              | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R5588              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R5590              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R5592              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R5595              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R5596              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R5700              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R5803              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R5804              | RGF6800JTCANL | MT-GLAZE 680 JA 1/10W   |
| R5805              | RGF6800JTCANL | MT-GLAZE 680 JA 1/10W   |
| R5807              | RGF6800JTCANL | MT-GLAZE 680 JA 1/10W   |
| R5808              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R5809              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R5813              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R5814              | RGF6800JTCANL | MT-GLAZE 680 JA 1/10W   |
| R5815              | RGF6800JTCANL | MT-GLAZE 680 JA 1/10W   |
| R5817              | RGF6800JTCANL | MT-GLAZE 680 JA 1/10W   |
| R5818              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R5901              | RGF1202JTCANL | MT-GLAZE 12K JA 1/10W   |
| R5902              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R5903              | RGF4702JTCANL | MT-GLAZE 47K JA 1/10W   |
| R5904              | RGF4702JTCANL | MT-GLAZE 47K JA 1/10W   |

| Schematic Location | Part No.      | Description             |
|--------------------|---------------|-------------------------|
| R5905              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R5906              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R5907              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R5908              | RGF2202JTCANL | MT-GLAZE 22K JA 1/10W   |
| R5951              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R5953              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R5954              | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R5955              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R5956              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R5957              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R5958              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R5959              | RGF1003JTCANL | MT-GLAZE 100K JA 1/10W  |
| R5974              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R5975              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R5976              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R6050              | RGF5600FTCANL | MT-GLAZE 560 FA 1/10W   |
| R6051              | RGF1501FTCANL | MT-GLAZE 1.5K FA 1/10W  |
| R6052              | RGF1201FTCANL | MT-GLAZE 1.2K FA 1/10W  |
| R6053              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6085              | RGF4701FTCANL | MT-GLAZE 4.7K FA 1/10W  |
| R6086              | RGF4701FTCANL | MT-GLAZE 4.7K FA 1/10W  |
| R6087              | RGF1001FTCANL | MT-GLAZE 1K FA 1/10W    |
| R6088              | RGF1200FTCANL | MT-GLAZE 120 FA 1/10W   |
| R6089              | RGF1001FTCANL | MT-GLAZE 1K FA 1/10W    |
| R6093              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6100              | RGF2200JTCANL | MT-GLAZE 220 JA 1/10W   |
| R6101              | RGF2201JTCANL | MT-GLAZE 2.2K JA 1/10W  |
| R6104              | RGF2202JTCANL | MT-GLAZE 22K JA 1/10W   |
| R6108              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6110              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R6117              | RGF3302JTCANL | MT-GLAZE 33K JA 1/10W   |
| R6118              | RGF1001JTCANL | MT-GLAZE 1K JA 1/10W    |
| R6119              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6124              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R6125              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6126              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6129              | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R6130              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6174              | RGF4702JTCANL | MT-GLAZE 47K JA 1/10W   |
| R6176              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R6177              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R6178              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R6200              | RGF3302JTCANL | MT-GLAZE 33K JA 1/10W   |
| R6201              | RGF33R0JTCANL | MT-GLAZE 33 JA 1/10W    |
| R6204              | RGF33R0JTCANL | MT-GLAZE 33 JA 1/10W    |
| R6208              | RGF4700JTCANL | MT-GLAZE 470 JA 1/10W   |
| R6209              | RGF33R0JTCANL | MT-GLAZE 33 JA 1/10W    |
| R6213              | RGF33R0JTCANL | MT-GLAZE 33 JA 1/10W    |
| R6216              | RGF33R0JTCANL | MT-GLAZE 33 JA 1/10W    |
| R6221              | RGF4700JTCANL | MT-GLAZE 470 JA 1/10W   |
| R6222              | RGF33R0JTCANL | MT-GLAZE 33 JA 1/10W    |
| R6225              | RGF10R0JTCANL | MT-GLAZE 10 JA 1/10W    |
| R6229              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6231              | RGF10R0JTCANL | MT-GLAZE 10 JA 1/10W    |

| Schematic Location | Part No.      | Description             |
|--------------------|---------------|-------------------------|
| R6233              | RGF33R0JTCANL | MT-GLAZE 33 JA 1/10W    |
| R6235              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R6236              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R6237              | RGF33R0JTCANL | MT-GLAZE 33 JA 1/10W    |
| R6238              | RGF33R0JTCANL | MT-GLAZE 33 JA 1/10W    |
| R6240              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6241              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6244              | RGF33R0JTCANL | MT-GLAZE 33 JA 1/10W    |
| R6250              | RGF6802FTCANL | MT-GLAZE 68K FA 1/10W   |
| R6251              | RGF1003JTCANL | MT-GLAZE 100K JA 1/10W  |
| R6252              | RGF2200JTCANL | MT-GLAZE 220 JA 1/10W   |
| R6253              | RGF2200JTCANL | MT-GLAZE 220 JA 1/10W   |
| R6254              | RGF1000JTCANL | MT-GLAZE 100 JA 1/10W   |
| R6255              | RGF1004JTCANL | MT-GLAZE 1M JA 1/10W    |
| R6257              | RGF3301JTCANL | MT-GLAZE 3.3K JA 1/10W  |
| R6258              | RGF3001FTCANL | MT-GLAZE 3K FA 1/10W    |
| R6261              | RGF3901JTCANL | MT-GLAZE 3.9K JA 1/10W  |
| R6262              | RGF3300JTCANL | MT-GLAZE 330 JA 1/10W   |
| R6263              | RGF3300JTCANL | MT-GLAZE 330 JA 1/10W   |
| R6266              | RGF2200JTCANL | MT-GLAZE 220 JA 1/10W   |
| R6267              | RGF2200JTCANL | MT-GLAZE 220 JA 1/10W   |
| R6271              | RGF47R0JTCANL | MT-GLAZE 47 JA 1/10W    |
| R6272              | RGF15R0JTCANL | MT-GLAZE 15 JA 1/10W    |
| R6273              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R6276              | RGF6800JTCANL | MT-GLAZE 680 JA 1/10W   |
| R6277              | RGF15R0JTCANL | MT-GLAZE 15 JA 1/10W    |
| R6278              | RGF15R0JTCANL | MT-GLAZE 15 JA 1/10W    |
| R6281              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R6282              | RGF6800JTCANL | MT-GLAZE 680 JA 1/10W   |
| R6283              | RGF2203JTCANL | MT-GLAZE 220K JA 1/10W  |
| R6284              | RGF2203JTCANL | MT-GLAZE 220K JA 1/10W  |
| R6285              | RGF2203JTCANL | MT-GLAZE 220K JA 1/10W  |
| R6286              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6287              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6300              | RGF2203JTCANL | MT-GLAZE 220K JA 1/10W  |
| R6332              | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R6333              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |

| Schematic Location | Part No.      | Description             |
|--------------------|---------------|-------------------------|
| R6334              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6335              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6337              | RGF4700JTCANL | MT-GLAZE 470 JA 1/10W   |
| R6340              | RGF4701JTCANL | MT-GLAZE 4.7K JA 1/10W  |
| R6343              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6346              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6348              | RGF3300JTCANL | MT-GLAZE 330 JA 1/10W   |
| R6349              | RGF4700JTCANL | MT-GLAZE 470 JA 1/10W   |
| R6350              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R6364              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6365              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6366              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R6367              | RGF1002JTCANL | MT-GLAZE 10K JA 1/10W   |
| R6369              | RGF3902JTCANL | MT-GLAZE 39K JA 1/10W   |
| R6370              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6376              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6377              | RGF4700JTCANL | MT-GLAZE 470 JA 1/10W   |
| R6378              | RGF4700JTCANL | MT-GLAZE 470 JA 1/10W   |
| R6379              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |
| R6380              | RGFR000ZTCANL | MT-GLAZE 0.000 ZA 1/10W |

## SWITCHES

|        |               |                      |
|--------|---------------|----------------------|
| SW1901 | 1AV4S10B0900J | SWITCH, PUSH 1P-1T   |
| SW1901 | 1AV4S10B5650J | SWITCH, PUSH 1P-1TX1 |
| SW1902 | 1AV4S10B0900J | SWITCH, PUSH 1P-1T   |
| SW1902 | 1AV4S10B5650J | SWITCH, PUSH 1P-1TX1 |
| SW1903 | 1AV4S10B0900J | SWITCH, PUSH 1P-1T   |
| SW1903 | 1AV4S10B5650J | SWITCH, PUSH 1P-1TX1 |
| SW1904 | 1AV4S10B0900J | SWITCH, PUSH 1P-1T   |
| SW1904 | 1AV4S10B5650J | SWITCH, PUSH 1P-1TX1 |
| SW1905 | 1AV4S10B0900J | SWITCH, PUSH 1P-1T   |
| SW1905 | 1AV4S10B5650J | SWITCH, PUSH 1P-1TX1 |

## CRYSTAL / FILTERS

|       |               |                        |
|-------|---------------|------------------------|
| X801  | 1AV4V10B0560N | OSC, CRYSTAL 32.768KHZ |
| X6200 | 1AV4F31B0540N | CERAMIC FILTER 4.5MHZ  |
| X6201 | 1AV4V10B8280G | OSC, CRYSTAL 25.000MHZ |



| Schematic Location | Part No. | Description |
|--------------------|----------|-------------|
|--------------------|----------|-------------|

### MISCELLANEOUS

|        |               |                           |
|--------|---------------|---------------------------|
| A001   | 1AA0B10N234B0 | ASSY, PWB, MAIN-N4TG      |
| A002   | 1AA0B10N22500 | ASSY, PWB, CONTROL-N4SG   |
| A1902  | 1AV4U20B99401 | UNIT, REMOCON RECEIVER    |
| ⚠A6100 | 1AV4F1ZAZ0010 | TUNER, USA/IF/DIGI-ANALOG |
| ⚠EL901 | 1AV4T40B83300 | LCD (M190A1-L02)          |
| K1003  | 1LB4J31B01101 | TERMINAL, BOARD           |
| K1004  | 1LB4J12B11700 | JACK, RCA-9               |
| K1005  | 1LB4J12B11600 | JACK, RCA-6               |
| SP901  | 1LB4A10B04600 | SPEAKER, 8                |
| SP901  | 1LB4A10B08100 | SPEAKER, 8                |
| SP902  | 1LB4A10B04600 | SPEAKER, 8                |
| SP902  | 1LB4A10B08100 | SPEAKER, 8                |
| ⚠W901  | 1AV4W10B17900 | CORD, POWER-2.0MK-VTR-02  |
|        | 1AV4W10B19800 | CORD, POWER-2.0MK-VTR-02  |

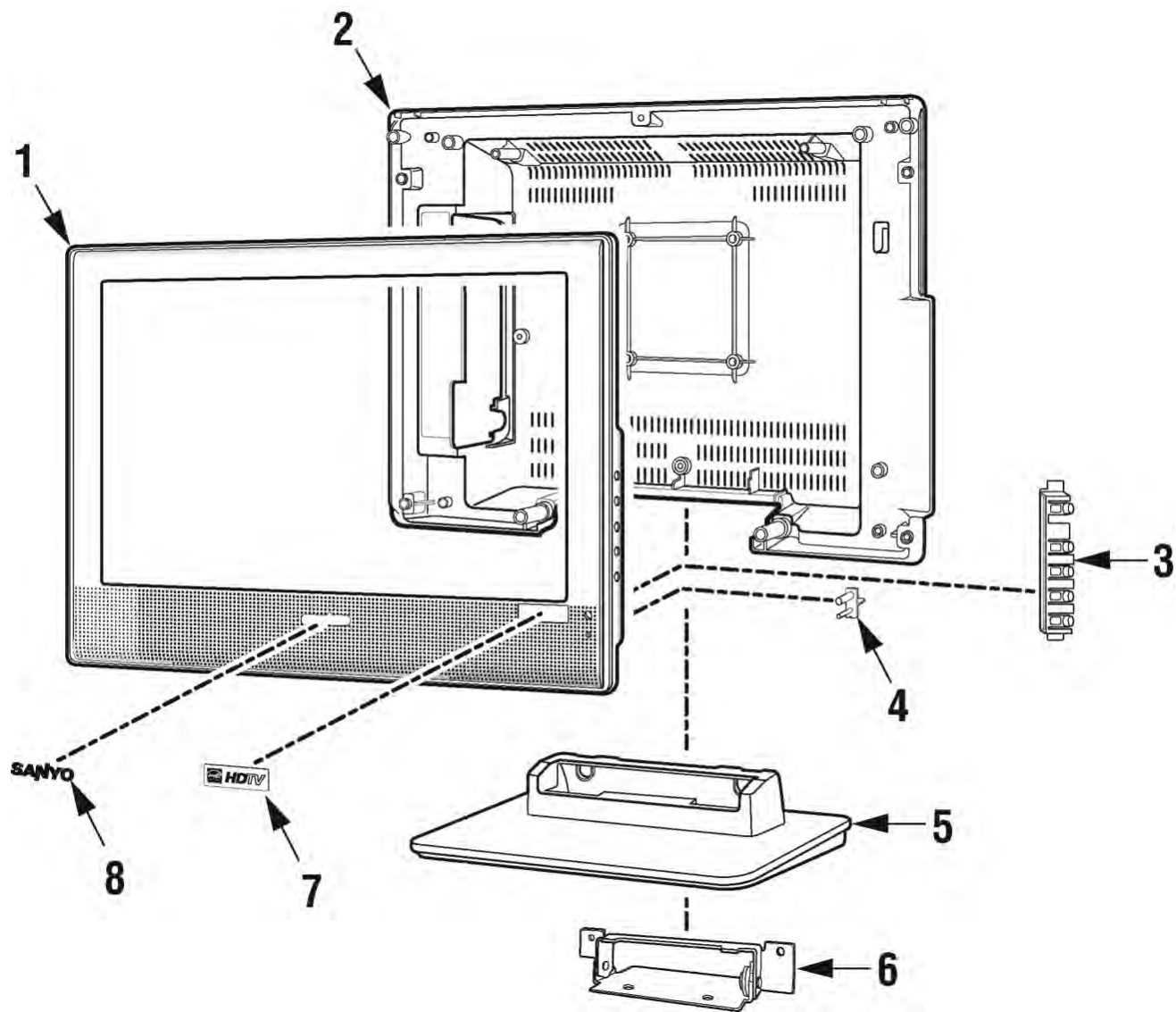
| Schematic Location | Part No. | Description |
|--------------------|----------|-------------|
|--------------------|----------|-------------|

### INVERTER / POWER BOARD

|       |               |                          |
|-------|---------------|--------------------------|
| ⚠U901 | 1LB4U20B01500 | UNIT, INVERTER-POWER BRD |
|-------|---------------|--------------------------|

Non-servicable part. No discreet parts are supplied for this PC board.

# CABINET PARTS LIST



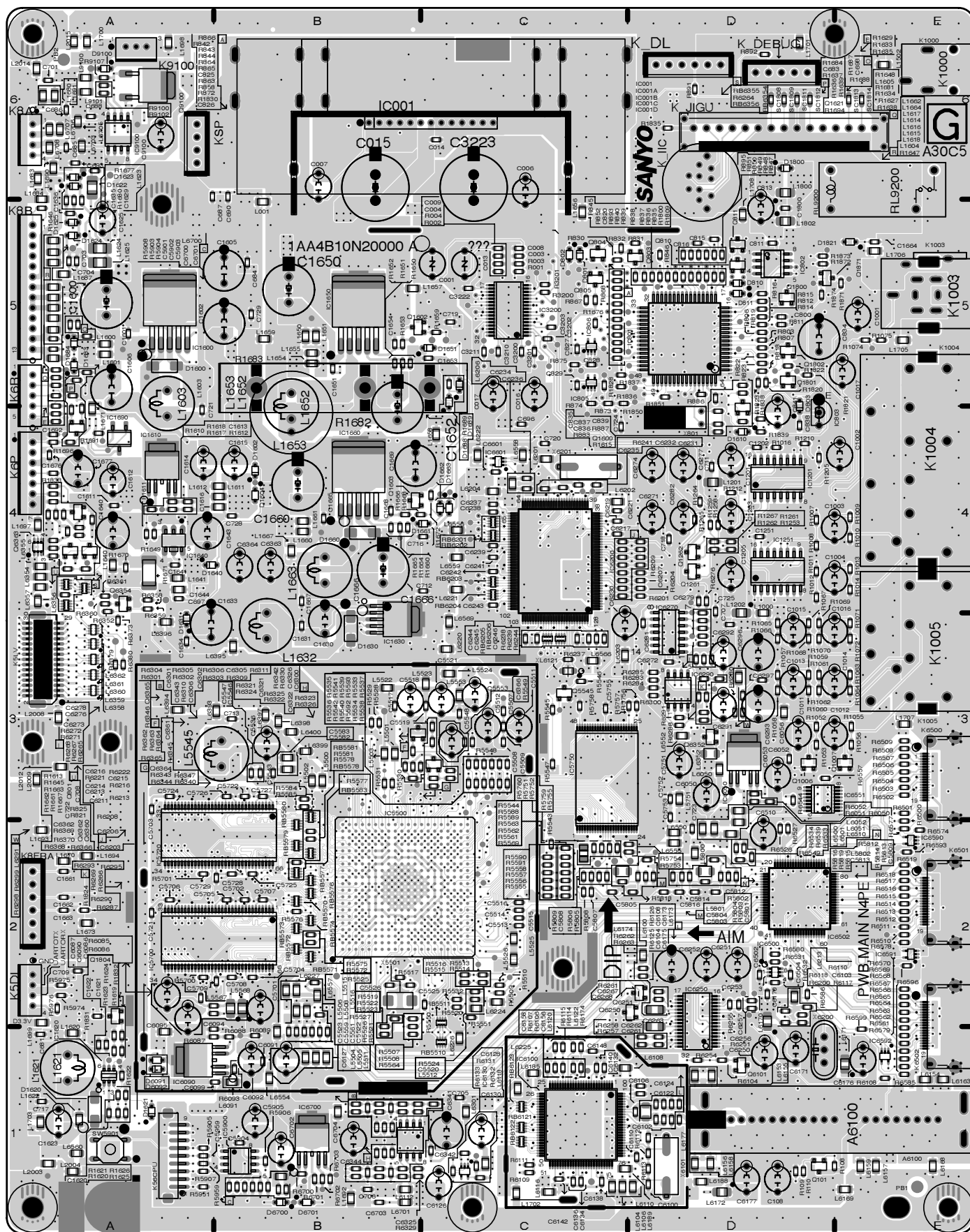
## CABINET PARTS LIST

| KEY NO. | PARTS NO.     | DESCRIPTION        |
|---------|---------------|--------------------|
| 1       | 1AA2CAM0588-A | CABINET FRONT-N4TK |
| 2       | 1AA2CBM0429-- | CABINET BACK-N4TE  |
| 3       | 1AA2BUM0529-A | BUTTON UNITED-N4TK |
| 4       | 1AA2DEM0444-- | DEC IND            |
| 5       | 1AA2SDM0172-A | STAND COVER        |
| 6       | 1AA0HGF0015-- | ASSY HINGE         |
| 7       | 1AA2DES0915-A | DEC SHEET HDTV     |
| 8       | 1AV2BAAS016AA | BADGE, SANYO       |

## ACCESSORY PARTS LIST

| KEY NO. | PARTS NO.     | DESCRIPTION              |
|---------|---------------|--------------------------|
|         | 1JC6P1P0291-- | OWNER'S MANUAL (English) |
|         | 1JC6P1P0292-- | OWNER'S MANUAL (Spanish) |
|         | 1JC6P1P0293-- | OWNER'S MANUAL (French)  |
|         | 1LB0U10B01801 | ASSY, REMOCON            |
|         | 1AA2RCM0305-- | RC BATTERY LID           |

## MAIN BOARD PARTS SIDE



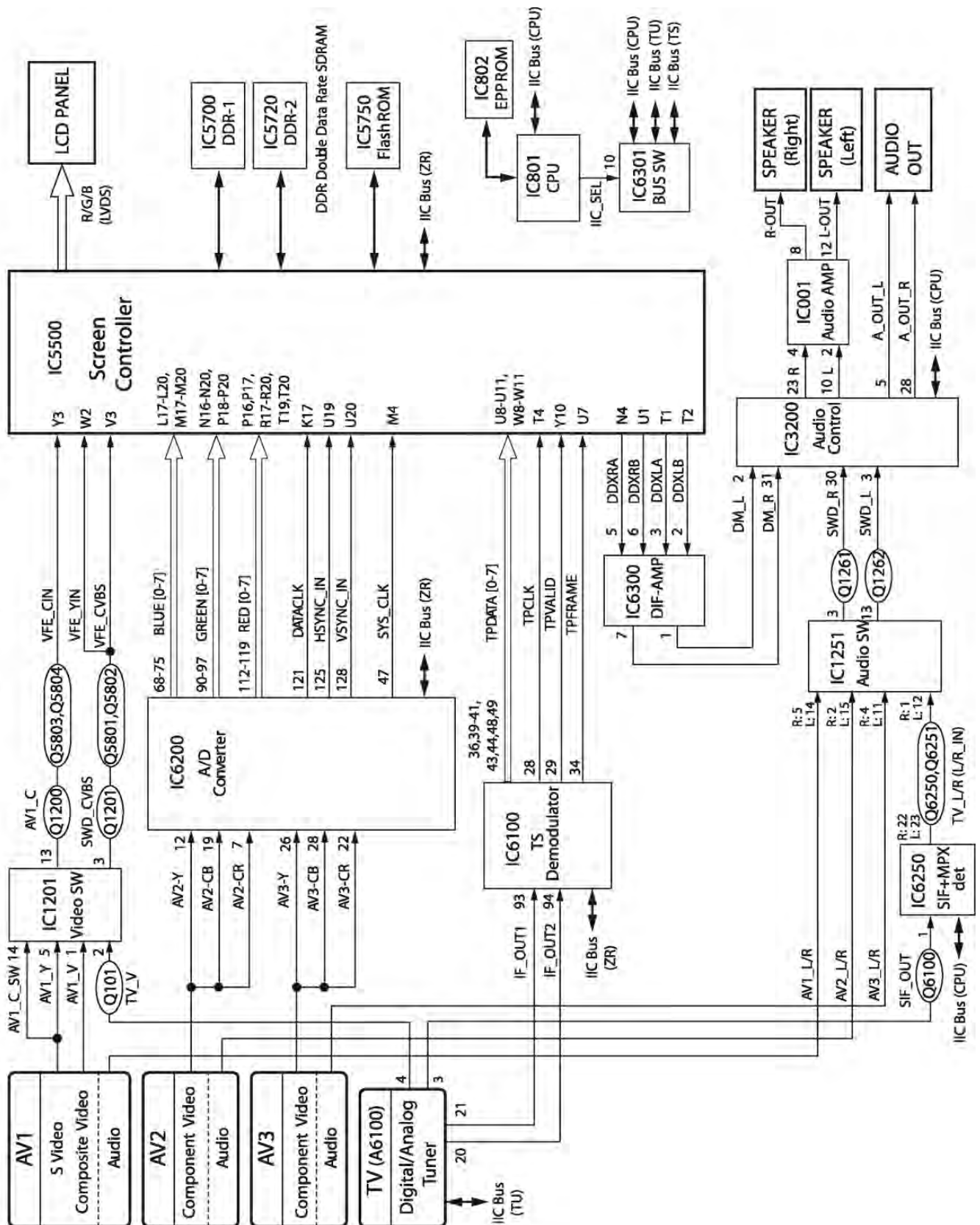


The diagram illustrates the power supply architecture of a DVD player, divided into three main sections: Power Unit, Main Board, and Control Board.

- Power Unit:** Provides AC input to the system via connector CN301.
- Main Board:**
  - Power Failure Section:** Includes IC801 CPU, IC802 EEPROM, and IC1804. It monitors the POWER\_ON signal and provides feedback to the 5V\_STBY regulator.
  - 5V\_STBY Regulator:** A switching regulator that provides standby power to the CPU and other components.
  - 12V\_ANALOG Regulator:** Provides power to the analog section of the system.
  - 5V Regulator:** Provides power to the digital section of the system.
  - 3V Regulator:** Provides power to the CPU and other low-voltage components.
  - 9V Regulator:** Provides power to the video and audio sections.
  - LVDS\_POW Regulator:** Provides power to the LCD panel.
  - AUDIO\_POW Regulator:** Provides power to the audio section.
- Control Board:**
  - 5V\_STBY Regulator:** Provides power to the control board components.
  - IC6100 TS Demodulator:** Processes the video signal.
  - IC5750 Flash ROM:** Stores system firmware.
  - IC6200 A/D Converter:** Converts analog signals to digital.
  - IC5700 DDR-1:** Digital Double Data Rate memory.
  - IC5720 DDR-2:** Digital Double Data Rate memory.
  - IC5500 Screen Controller:** Controls the display.
  - IC6300 DIF-AMP:** Digital Interface Amplifier.
  - IC1201 Video SW:** Video switch.
  - IC1251 Audio SW:** Audio switch.
  - IC3200 Audio Control:** Controls the audio output.
  - IC001 Audio AMP:** Audio amplifier.

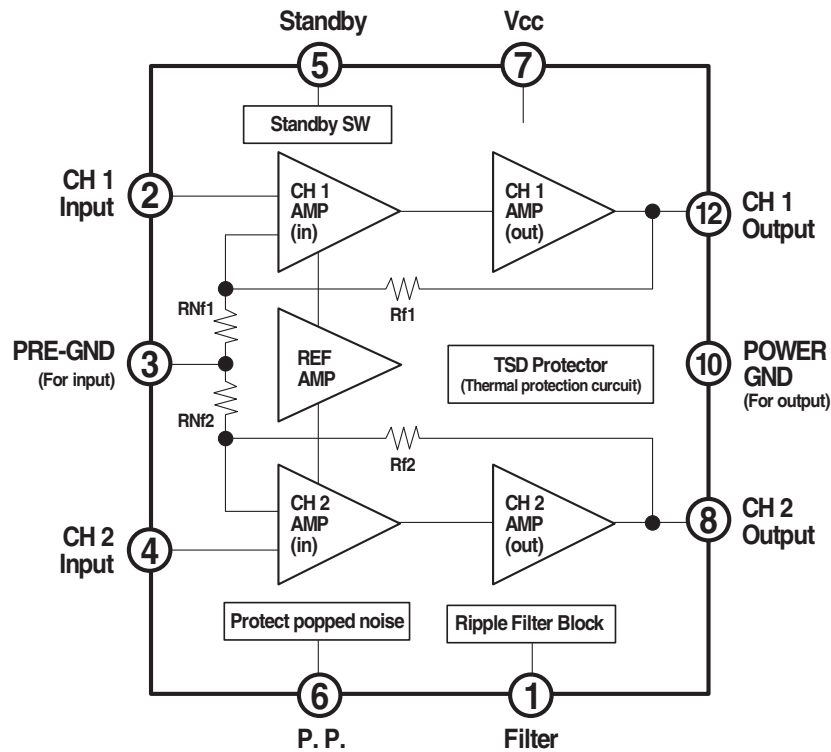
The diagram shows the interconnections between these components, including power lines, data lines, and control signals. Key components like the CPU (IC801) and the various regulators are highlighted with their pin numbers and connections to other components.

## BLOCK DIAGRAM SIGNAL LINES

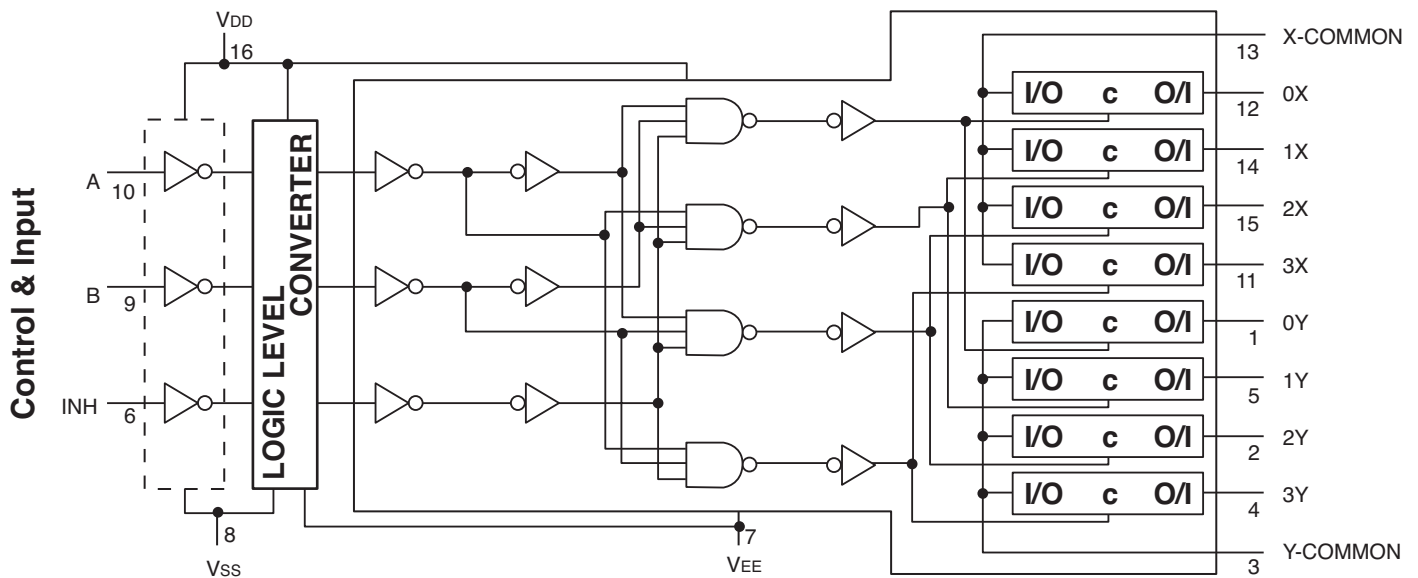


# IC BLOCK DIAGRAMS

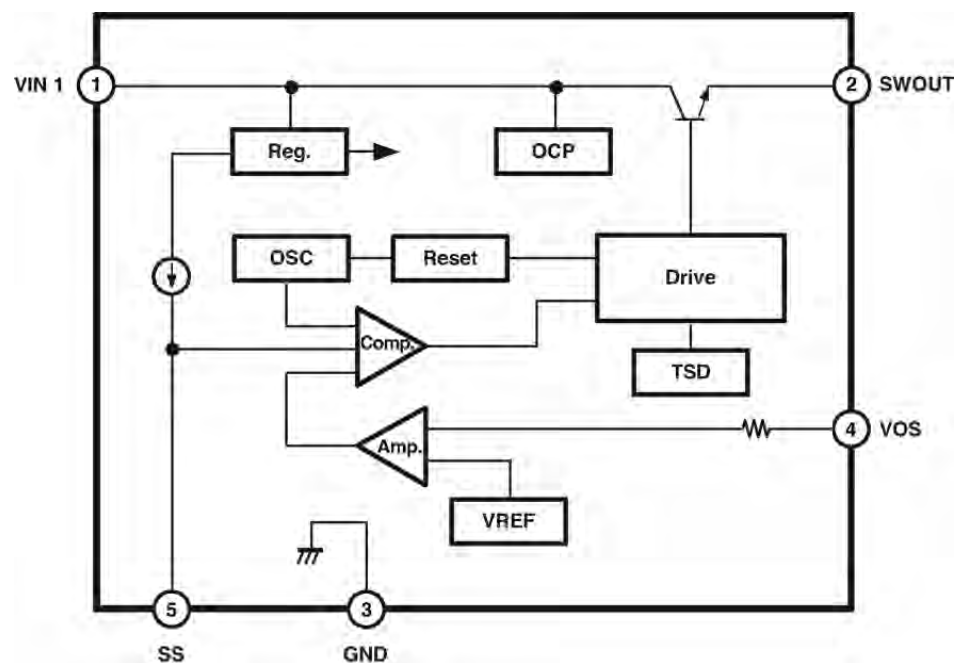
## IC001, Audio AMP



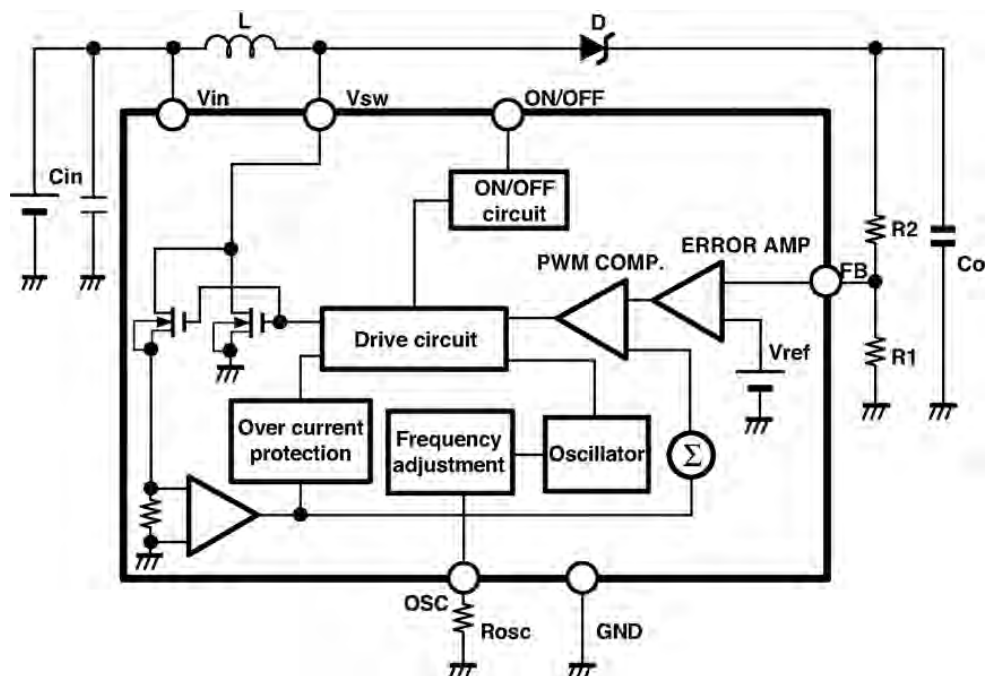
## IC1201, IC1251 Video and Audio Select



IC1600, DC to DC Converter



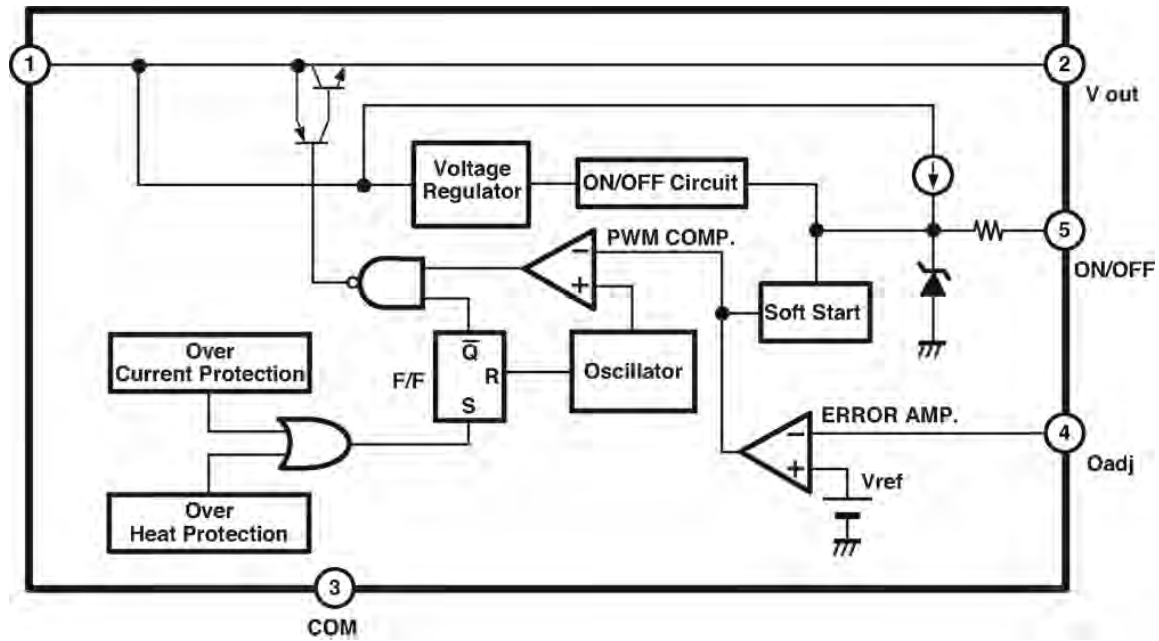
IC1620, DC to DC Converter



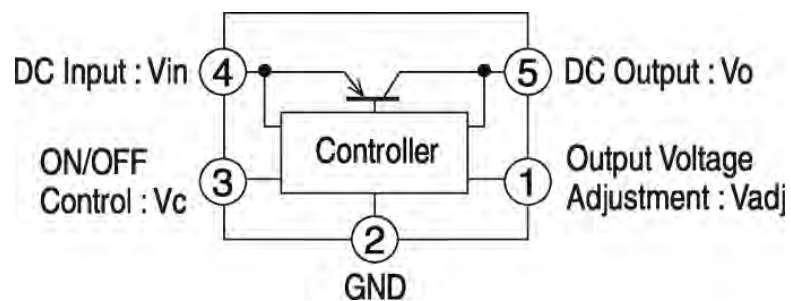


## IC BLOCK DIAGRAMS (CONT.)

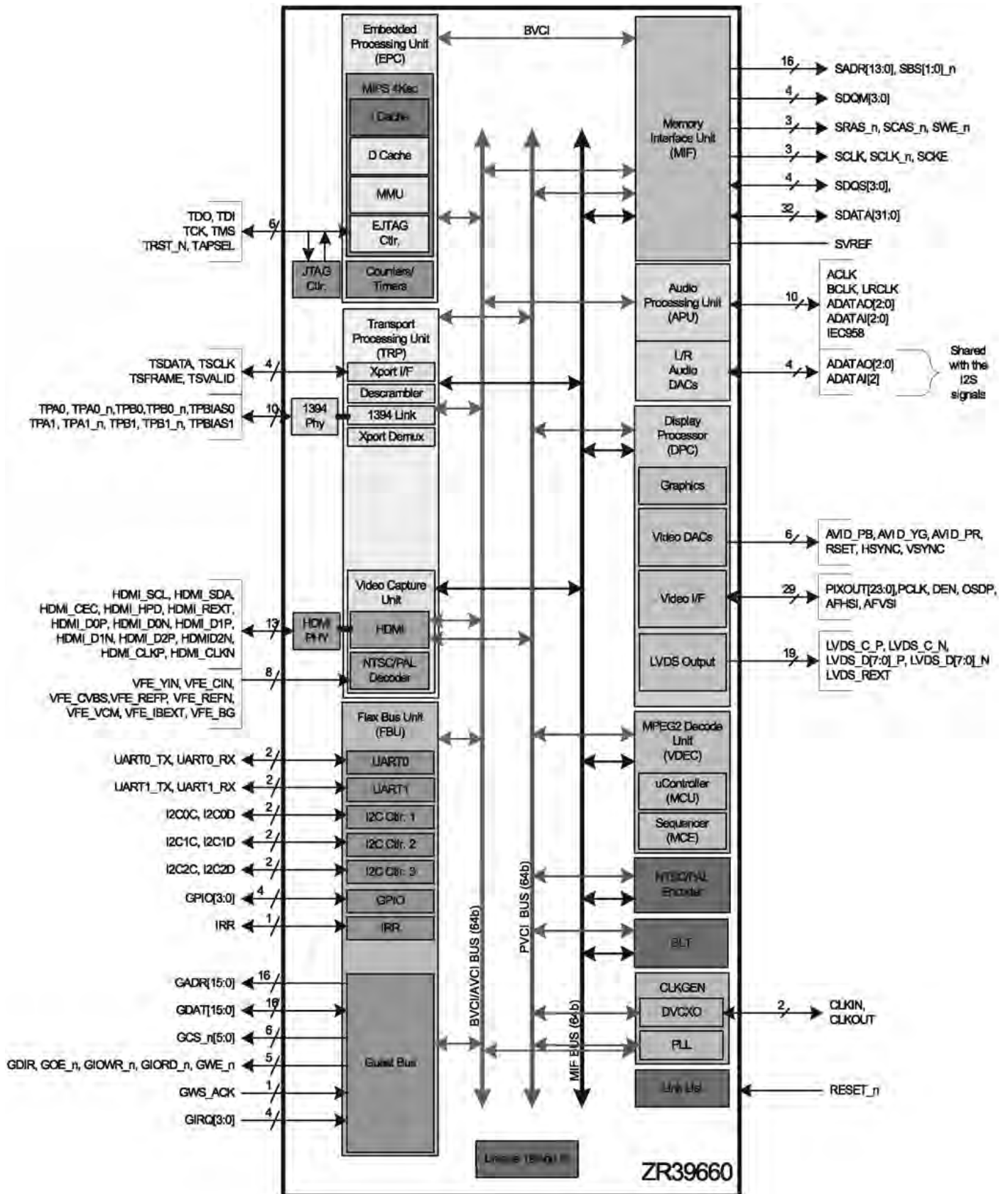
### IC1630, DC to DC Converter



### IC1640, DC to DC Converter

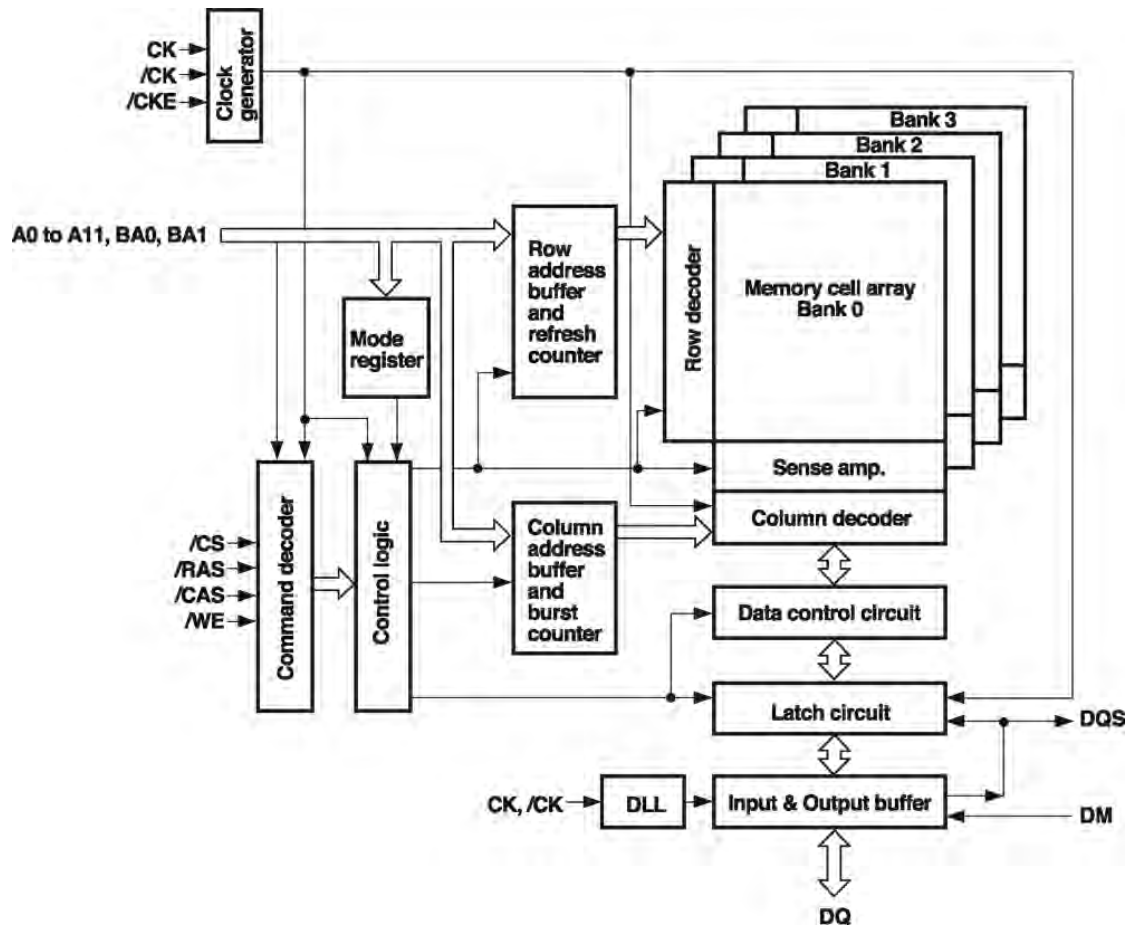


## IC5500 Screen Controller

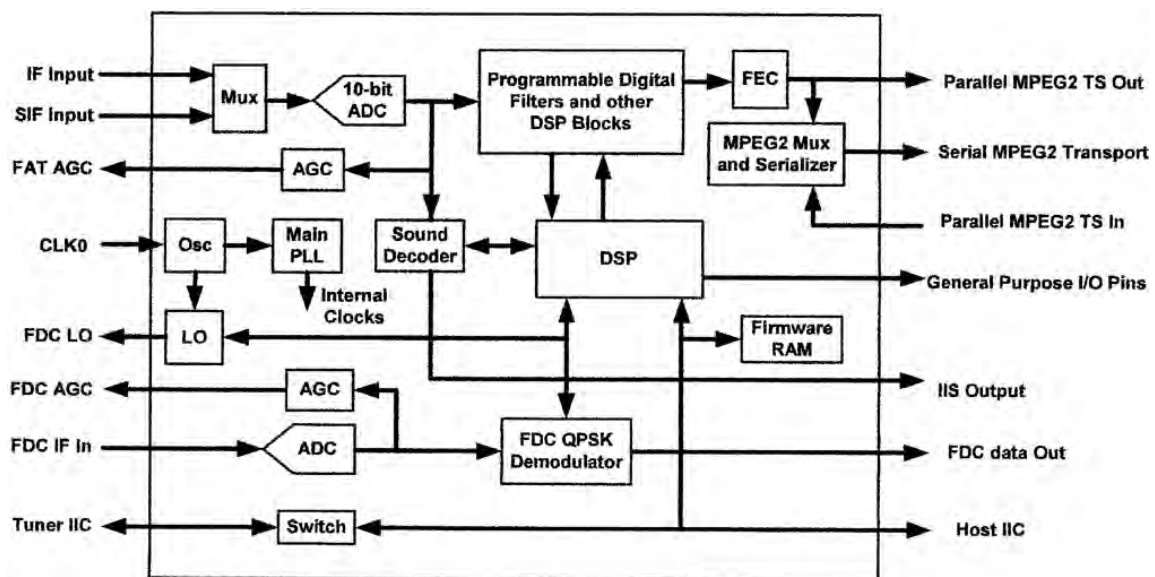


## IC BLOCK DIAGRAMS (CONT.)

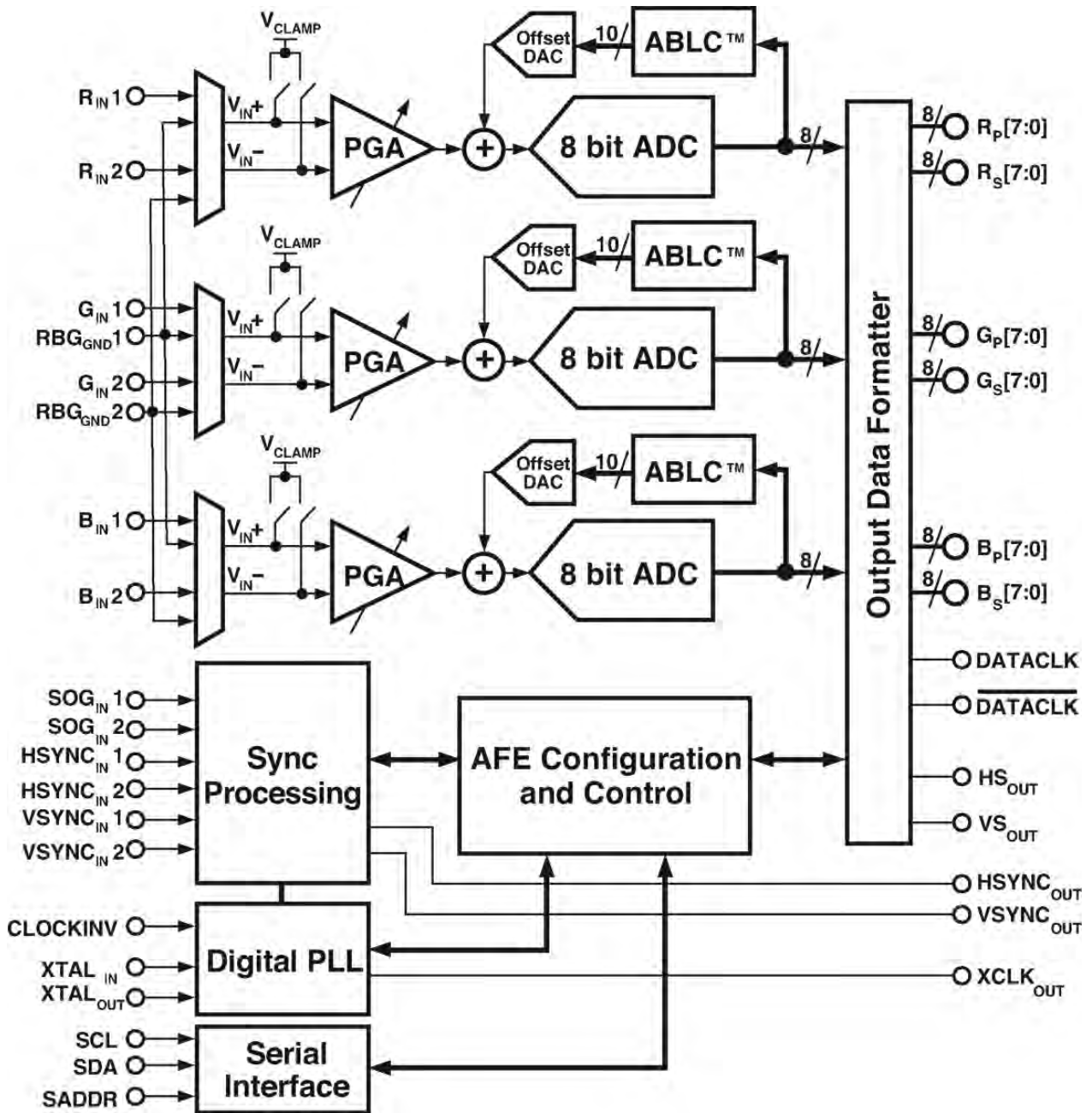
### IC5700, IC5720 DDR: Double Data Rate SDRAM



### IC6100, TS Demodulator

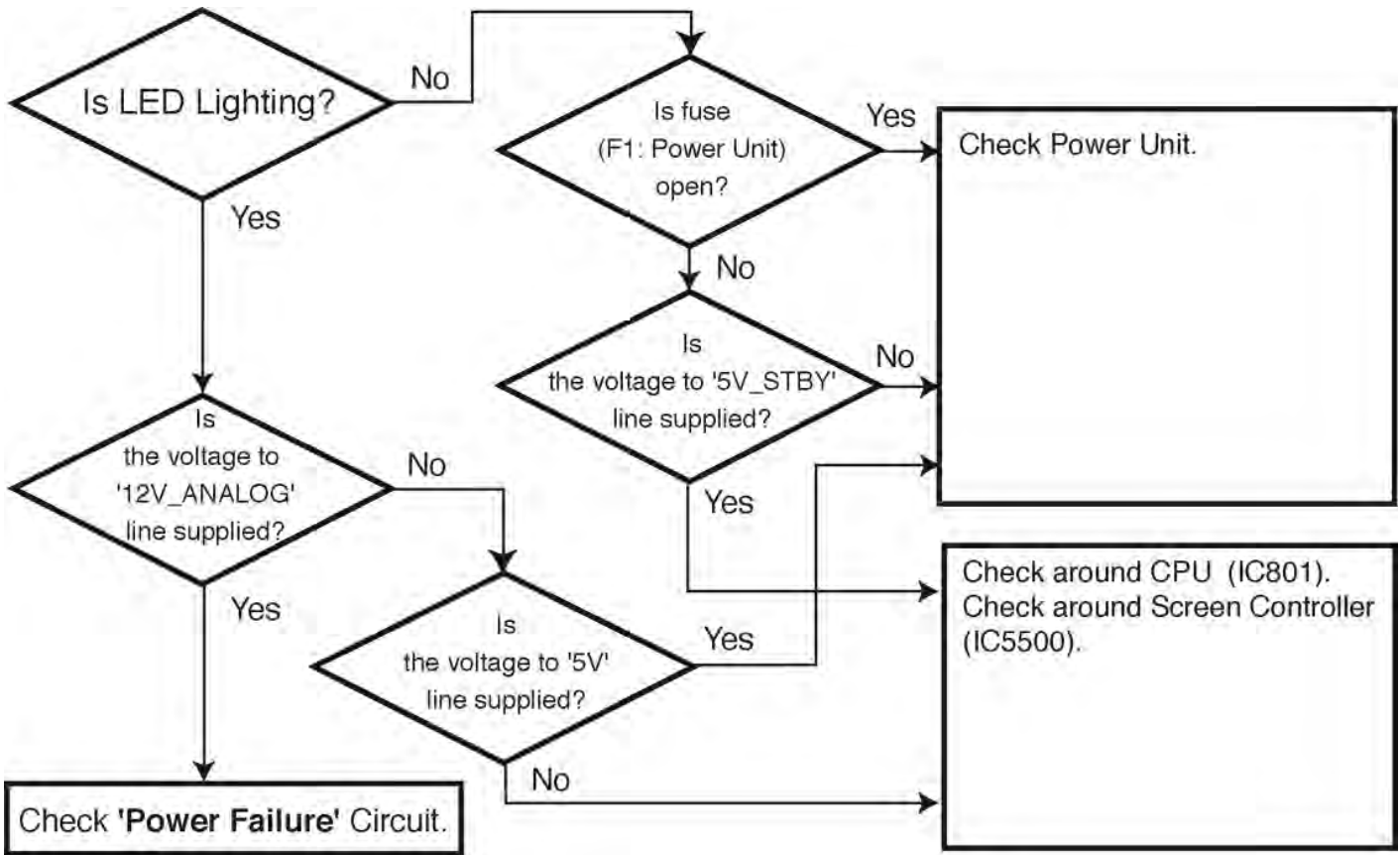


## IC6200, A/D Converter

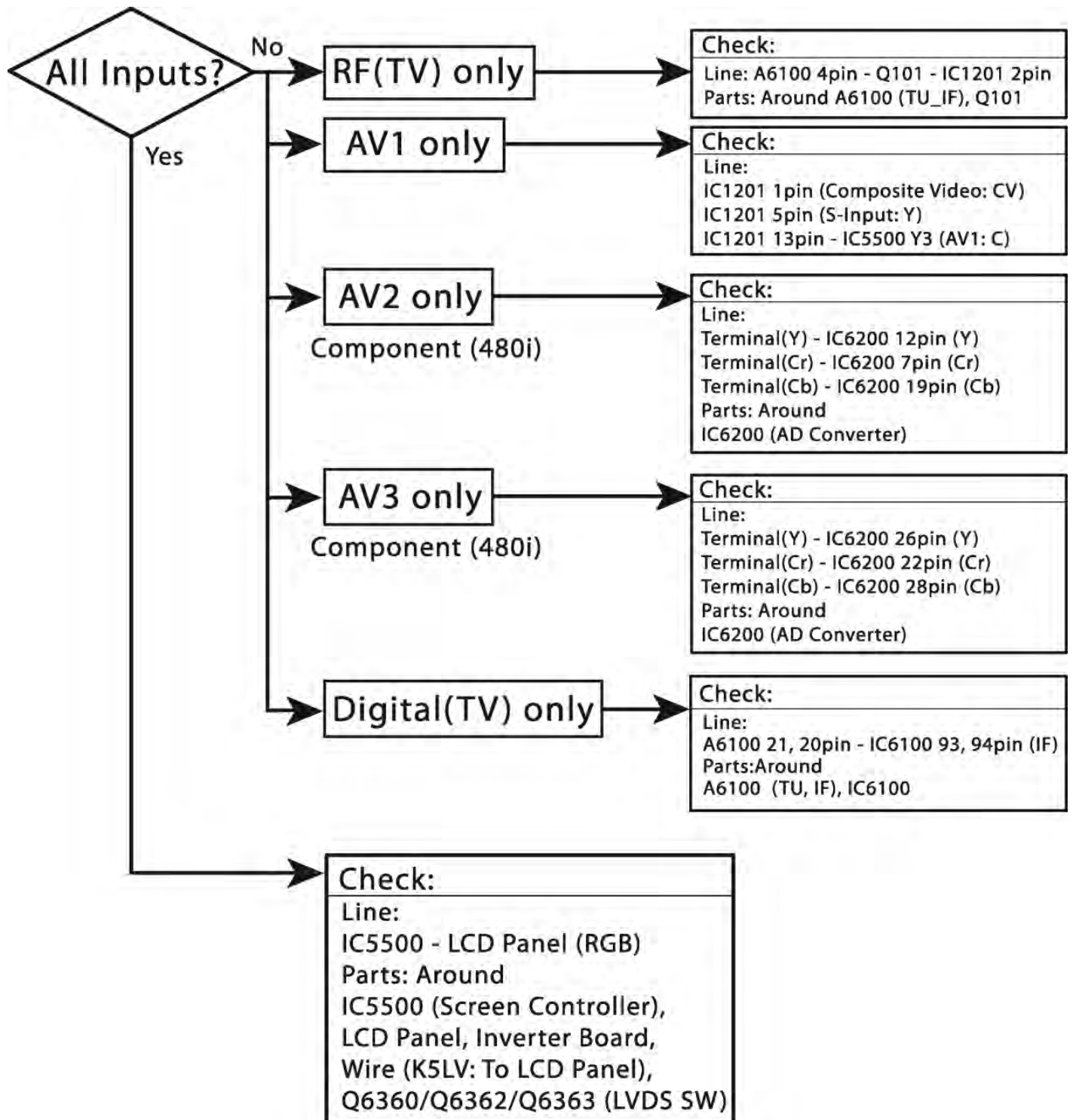


# TROUBLESHOOTING FLOW CHARTS

## NO POWER

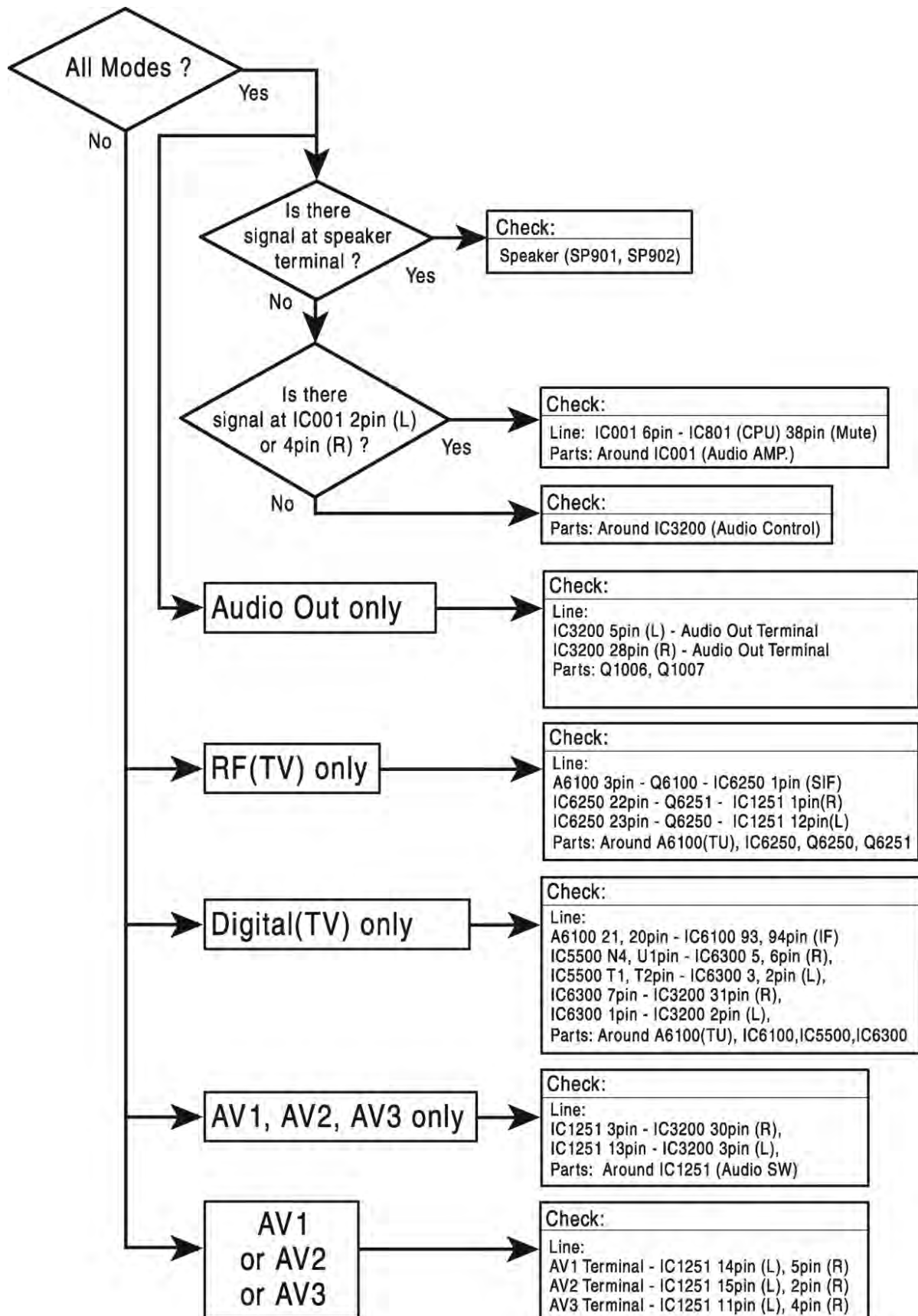


## NO VIDEO



# TROUBLESHOOTING FLOW CHARTS (CONT.)

## NO AUDIO



# CONTROL PORT FUNCTIONS

## System Control (CPU : IC801)

| Pin | Name           | Function         | I/O | Description                                   |
|-----|----------------|------------------|-----|-----------------------------------------------|
| 1   | CVin           | NA               | IN  | GND (0Vdc)                                    |
| 2   | P70/INT0/TOLCP | LINE OFF         | IN  | Detect AC Voltage Reduction (Normal: High)    |
| 3   | P71/INT1/TOHCP | Reserve          | OUT | (Open)                                        |
| 4   | P72/INT2/TOIN  | Display Enable   | OUT | Display Enable for PDP                        |
| 5   | P73/INT3/TOIN  | RC in            | IN  | RC Input                                      |
| 6   | AN0            | Key in           | IN  | Key Input                                     |
| 7   | AN1            | AFT S-Figure in  | IN  | AFT S-Figure Input                            |
| 8   | P82/AN2        | Tuner SW         | OUT | Tuner BUS-SW (Analog-RF: High, Other: Low)    |
| 9   | P83            | Reserve          | OUT | (Open)                                        |
| 10  | P84/AN4        | Reserve          | OUT | (Open)                                        |
| 11  | P85/AN5        | VS-ON            | OUT | VS-ON (for PDP) ON: High, OFF: Low            |
| 12  | P86/AN6        | Panel Ready      | IN  | Panel Ready (for PDP) OK: High, NG: Low       |
| 13  | P87/AN7        | S IN             | IN  | S-Detect                                      |
| 14  | P30/SO6        | TV Relay out     | OUT | POWER ON/OFF SW On: High, OFF: Low            |
| 15  | SB6            | IIC-BUS for NV   | I/O | (DATA) Active 'L' for IIC data NV             |
| 16  | SCK6           | IIC-BUS for NV   | OUT | (CLOCK) Active 'L' for IIC clock NV           |
| 17  | SB6            | IIC-BUS for TV   | I/O | (DATA) Active 'L' for IIC data TV             |
| 18  | SCK6           | IIC-BUS for TV   | OUT | (CLOCK) Active 'L' for IIC clock TV           |
| 19  | DBGP0          | DBGP0            | I/O | Terminal for De-Bug 1                         |
| 20  | DBGP1          | DBGP1            | I/O | Terminal for De-Bug 2                         |
| 21  | DBGP2          | DBGP2            | IN  | Terminal for De-Bug 3                         |
| 22  | PC0            | ENA/DATA1        | I/O | Writing on board (ENA/DATA1)                  |
| 23  | PC1            | DATA0            | I/O | Writing on board (DATA0)                      |
| 24  | PC2            | CLK              | IN  | Writing on board (CLK)                        |
| 25  | PC3            | TB in            | IN  | Detection for Video Signal (Time base: H)     |
| 26  | PC4            | Reserve          | OUT | (Open)                                        |
| 27  | P00            | Reserve          | OUT | (Open)                                        |
| 28  | P01            | AV SW1           | OUT | Selection for AV Selector 1                   |
| 29  | P02            | AV SW2           | OUT | Selection for AV Selector 2                   |
| 30  | P03            | AV SW3           | OUT | Selection for AV Selector 3                   |
| 31  | P04            | AV SW4           | OUT | Selection for AV Selector 4                   |
| 32  | P05            | Power Fail-1 in  | IN  | TV Power Error (Error: Low)                   |
| 33  | P06            | STATUS in        | IN  | For factory use                               |
| 34  | P07            | Ack out          | OUT | For factory use                               |
| 35  | P20/SO1        | 5V Discharge     | OUT |                                               |
| 36  | P21/S11/SB1    | Power Fail-2 in  | IN  | LVDS Power Error (Error: Low)                 |
| 37  | P22/SCK1       | Monitor-Out Mute | OUT | Mute ON: Low, OFF, High                       |
| 38  | P23            | Audio MUTE       | OUT | Audio Mute ON: High, OFF: Low                 |
| 39  | UTX            | UART OUT         | OUT | Digital Module microcomputer piece confidence |
| 40  | URX            | UART IN          | IN  | Digital Module microcomputer piece confidence |
| 41  | P26/OSDCK1     | REG SW           | OUT | REG ON/OFF SW ON: High, OFF:Low               |
| 42  | BL2            | Reserve          | OUT | (Open)                                        |
| 43  | VSS2           | Vss              | IN  | GND (0Vdc)                                    |
| 44  | VDD2           | Power IN         | IN  | 5V (5Vdc±10%)                                 |
| 45  | P10/SO0        | Reserve          | OUT | (Open)                                        |
| 46  | P11/SI0/SB0    | Reserve          | OUT | (Open)                                        |



## CONTROL PORT FUNCTIONS (Cont.)

### System Control (CPU : IC801 Cont.)

| Pin | Name     | Function     | I/O | Description                                |
|-----|----------|--------------|-----|--------------------------------------------|
| 47  | P12/SCK0 | PDP/LCD      | IN  | Option Setting (PDP: High, LCD: Low)       |
| 48  | P13      | Panel Size 3 | IN  | Panel Size                                 |
| 49  | P14      | Panel Size 2 | IN  | Panel Size                                 |
| 50  | P15      | Panel Size 1 | IN  | Panel Size                                 |
| 51  | P16      | Panel Size 0 | IN  | Panel Size                                 |
| 52  | P17      | Reserve      | IN  | (Open)                                     |
| 53  | BL1      | NA           | OUT | (Open)                                     |
| 54  | B        | NA           | OUT | (Open)                                     |
| 55  | G        | NA           | OUT | (Open)                                     |
| 56  | R        | NA           | OUT | (Open)                                     |
| 57  | HSB      | Hsync        | IN  | GND (0Vdc)                                 |
| 58  | VSB      | Vsync        | IN  | GND (0Vdc)                                 |
| 59  | VSS1     | Vss          | IN  | GND (0Vdc)                                 |
| 60  | XT1      | Xin          | IN  | Main Clock IN/OUT Fosc=8MHz                |
| 61  | XT2      | Xout         | OUT | (Should be connected between IN/OUT pins.) |
| 62  | VDD1     | Power IN     | IN  | 5V (5Vdc±10%)                              |
| 63  | RESB     | RESET in     | IN  | Reset terminal                             |
| 64  | FILT     | FILT out     | OUT | PLL Filter                                 |

### Mode Switching Table

| Mode                  | AVSW1 (pin28) | AVSW2 (pin29) | AVSW3 (pin30) |
|-----------------------|---------------|---------------|---------------|
| Analog Tuner          | Low           | High          | Low           |
| AV1(CVBS)             | High          | High          | Low           |
| AV1(S)                | High          | Low           | Low           |
| AV2(Component 2)      | Low           | Low           | High          |
| AV3(Component 3)      | Low           | Low           | Low           |
| Digital Tuner or HDMI | Low           | Low           | Low           |
| HDMI (DVI)            | Low           | Low           | Low           |

# SCHEMATIC DIAGRAMS

## NOTES ON SCHEMATIC DIAGRAMS

1. All resistance values in ohms K=1,000 M=1,000,000.
2. Resistors specified with resistance value are "1/6DJ."
3. Resistors specified with type of resistor, tolerance and resistance value are "1/4."
4. Unless otherwise noted on schematic, all capacitor values less than 1 are expressed in  $\mu\text{F}$  (Micro Farad), and the values more than 1 are in pF.
5. All capacitors are 50 WV rating unless otherwise noted.
6. Unless otherwise noted on schematic, voltage reading taken with VOM from point indicated to chassis ground. Voltage reading taken using color-bar signal VHF channel 5, all controls at normal. Line voltage at 120 volts. Some voltages may vary with signal strength.
7. Waveforms were taken with color-bar signal and controls set for normal picture. Waveforms marked with an \* may vary with signal strength.
8. The Symbol  indicates a fusible resistor, which protects the circuit from possible short circuits.
9. Parts enclosed with  are related with X-radiation.
10. Isolation border line.  Cold Side  Hot Side
11. Schematic part location numbers may not always match the schematic symbols. The schematic symbols and part descriptions are correct and should be used. The part descriptions will be listed under the location number in the parts list.



### **ELECTROSTATICALLY SENSITIVE DEVICES**

Many solid-state devices (especially Integrated Circuits) are Electrostatically Sensitive, and, therefore, require special handling techniques as described under "Servicing Electrostatically Sensitive Devices," on page two in this service literature.

### **SERVICE NOTES:**

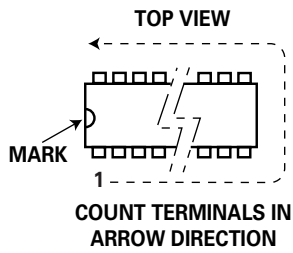
1. When replacing parts on circuit boards, clamp the lead wires to terminals before soldering.
2. When replacing high wattage resistors on circuit board, keep the resistor body 10 mm (3/8) from circuit board.
3. Keep wires away from high voltage and high temperature components.

### **PRODUCT SAFETY NOTICE**

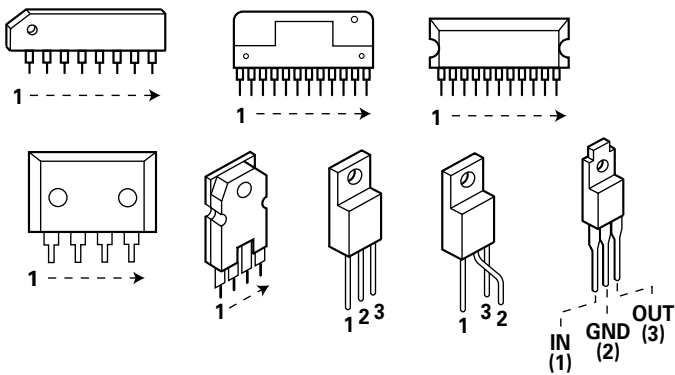
THE COMPONENTS DESIGNATED BY A  ON THIS SCHEMATIC DIAGRAM DESIGNATE COMPONENTS WHOSE VALUES ARE OF SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. SHOULD ANY COMPONENT DESIGNATED BY A  NEED TO BE REPLACED, USE ONLY THE PART DESIGNATED IN THE PARTS LIST. DO NOT DEVIATE FROM THE RESISTANCE, WATTAGE AND VOLTAGE RATINGS SHOWN.

# IC, DIODE, AND TRANSISTOR PIN LAYOUTS

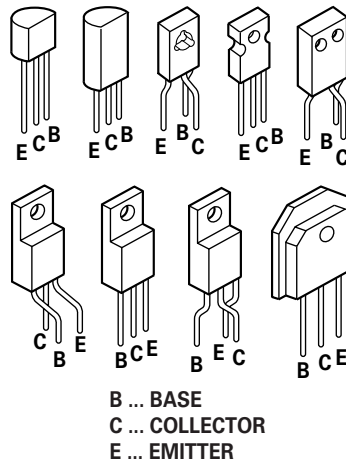
## INTEGRATED CIRCUITS



### SIDE VIEW

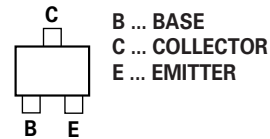


## TRANSISTORS

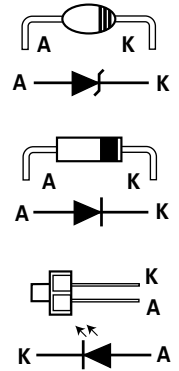


## CHIP TRANSISTORS

### TOP VIEW



## DIODES

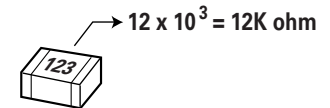


### INFRARED EMITTING

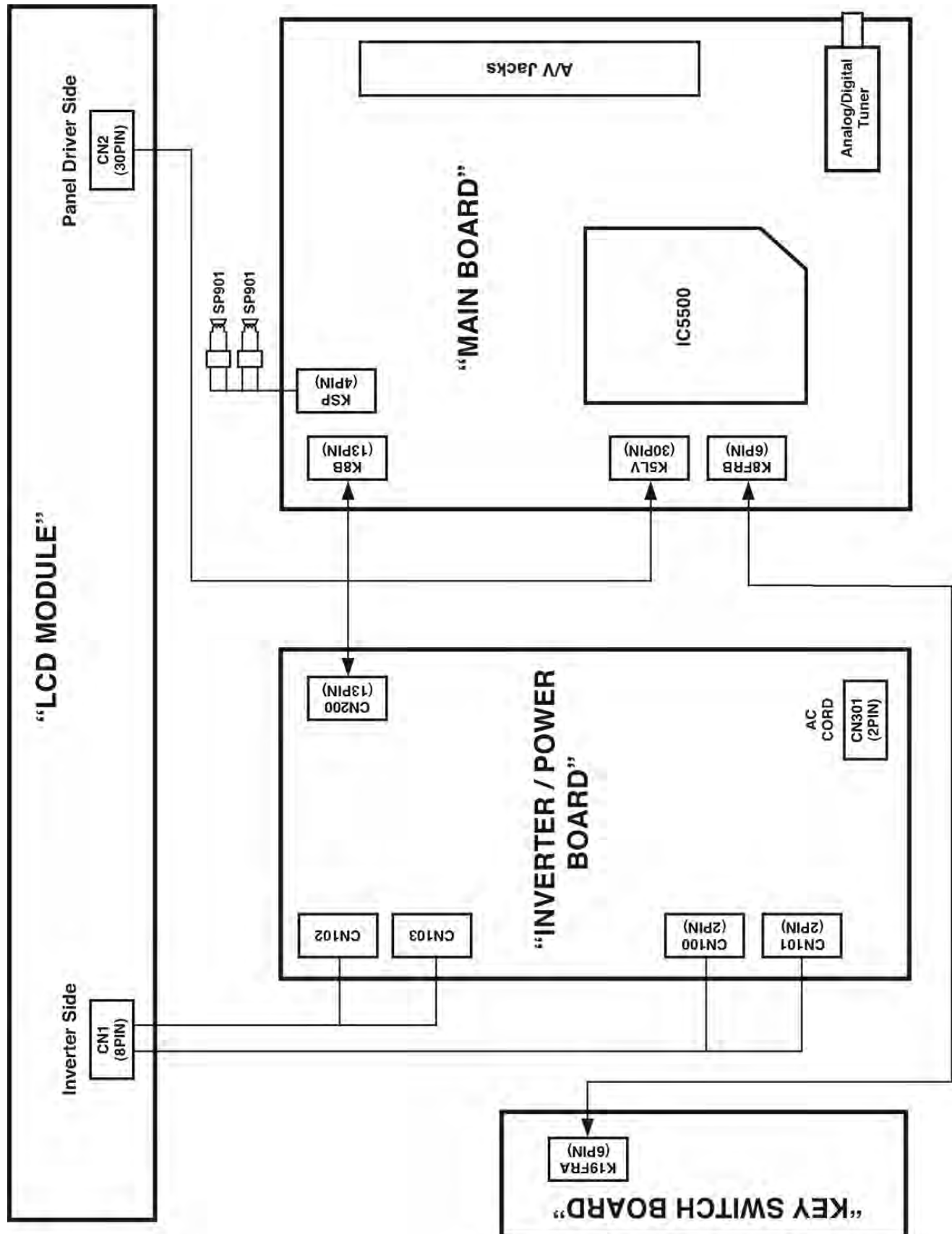
A...ANODE  
K...CATHODE

## CHIP RESISTORS

### TOP VIEW

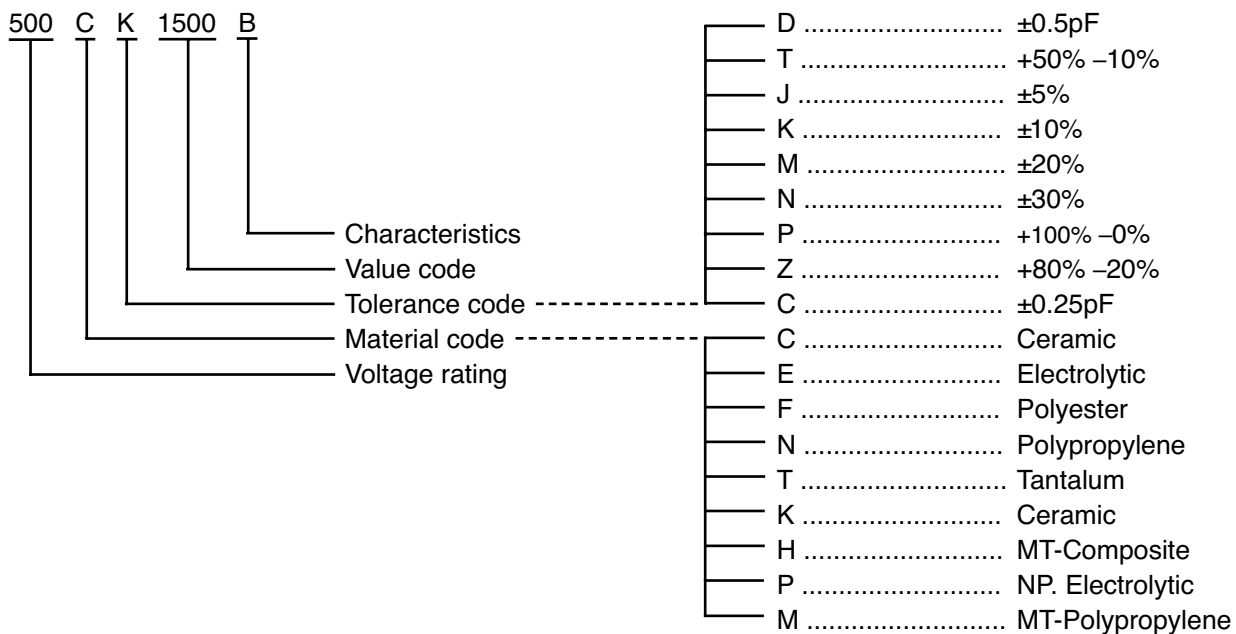


# PC BOARD CONNECTIONS AND LOCATIONS

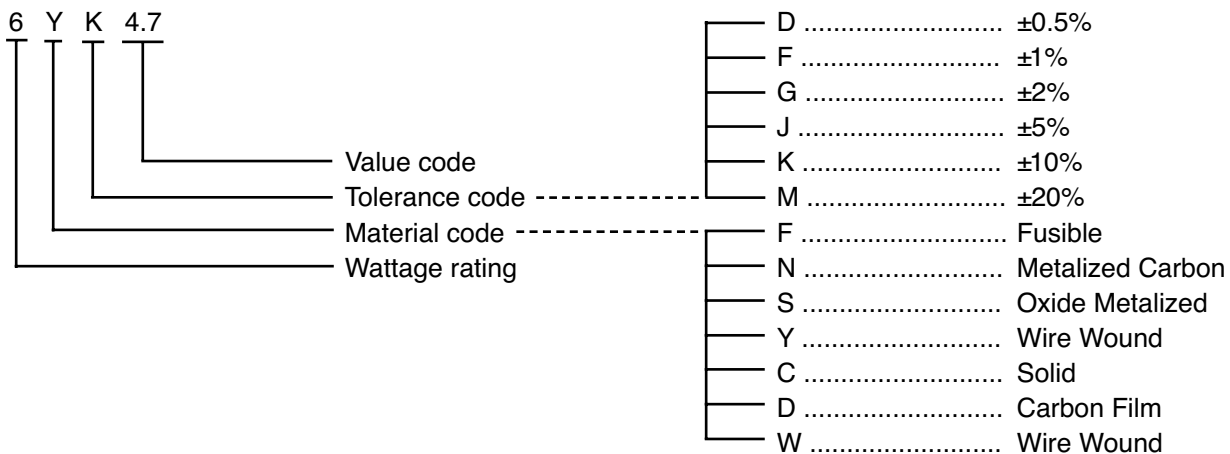


# CAPACITOR AND RESISTOR CODE CHART

## CAPACITOR (Example)



## RESISTOR (Example)



For parts or service contact

**Sanyo Manufacturing Corporation**  
**P.O. Box 2000**  
**3333 Sanyo Road**  
**Forrest City, Arkansas 72335-2000**

NOTES:  
1. RESISTORS SPECIFIED WITH RESISTANCE VALUE ARE "1/4W".  
2. RESISTORS SPECIFIED WITH TYPE OF RESISTOR, TOLERANCE AND RESISTANCE VALUE ARE "1/4W".  
3. ALL CAPACITORS ARE 50V UNLESS OTHERWISE NOTED.  
4. PARTS MARKED WITH  ARE RELATED WITH K-RADIATION.  
5. THICK LINES ARE 10WATT SUPPLY LINE.  
6. BOTTOM VIEW OF TR & C.  
7. ISOLATION BOARDER LINE.  
8. COLD SIDE C. HOT SIDE.  
9. CHIP TRANSISTORS.  
10. CHIP RESISTORS.  
11. LETTER SIDE.  
12. IC CASE OF TR.  
13. IC CASE OF IC.  
14. BASE.  
15. COLLECTOR.  
16. EMITTER.  
17. 12 x 10 (123 NMM).

LIST OF REPLACEABLE TRANSISTORS

(25A0335 TYPE)

|           |          |         |            |
|-----------|----------|---------|------------|
| 14TH CODE | 25A0335  | 25A1015 | 25A5644    |
| AB        | 77200161 | A Y GR  | R          |
| AC        | 77200182 | Q,R     | O,Y,GR Q,R |

(25A1013X CH4P TYPE)

|           |          |           |
|-----------|----------|-----------|
| 14TH CODE | 25A1179  | 25A1037   |
| AJ        | 77200221 | M6,M7 R,S |

(25C1405 TYPE)

|           |          |         |                 |
|-----------|----------|---------|-----------------|
| 14TH CODE | 25C17405 | 25C345A | 25C1815         |
| AD        | 77200183 | Q,R,S   | QA,PA Y,GR      |
| AE        | 70200202 | Q,R,S   | RA,QA,PA O,Y,GR |

(25C2412K CH4P TYPE)

|           |          |           |
|-----------|----------|-----------|
| 14TH CODE | 25C2812  | 25C2412K  |
| AH        | 77200250 | L6,L7 R,S |



